ENGINEERING EDUCATION

Bulletin of the

Society for the Promotion of Engineering Education

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Chas. F. Scott, Mortimer E. Cooley, F. L. Bishop, *Editor*.

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TABLE OF CONTENTS.

Membership and Duties of Committees of the Society 374
Board of Investigation and Coördination 376
Officers 1922–23 376
Council, 1922–23 377
Advisory Conference Committee 378
List of Institutional Members 379
List of Individual Members 383
Geographical Distribution of Membership 460
Geographical Summary of Membership 476
Occupational Distribution of Membership 476
Occupational Summary of Membership 485
Growth of Membership 486
Constitution 487
By-Laws 489
Publications 491
List of Past Officers 492
List of Members of Previous Councils 493

COMMITTEES.

In order that the work of the Society may be continuous and progressive a large part of it is conducted by committees under the direction of the Committee on Committees. The specific work assigned to certain committees for the present year is given in connection with the respective committees.

Members having matters they desire to take up with any chairman are invited to correspond directly with him.

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21. **Committee on R.O.T.C.:** P. F. Walker, *Chairman,* University of Kansas, Lawrence, Kans.; A. Marston, W. E. Mott.
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SCOTT, C. F., Chairman; Professor of Electrical Engineering, Sheffield Scientific School, Yale University; President of the Society, 1921–22 and 1922–23; 3 years.

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COOLEY, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan; President of the Society in 1920–21; 2 years.

JACKSON, D. C., Professor of Electrical Engineering, Massachusetts Institute of Technology; President of the Society in 1906–07; 5 years.

MCNAIR, F. W., President, Michigan College of Mines; President of the Society in 1904–05; 4 years.

The Secretary of the Society is *ex-officio* Secretary of the Board but not a member.

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D. S. KIMBALL, Cornell University, Ithaca, N. Y.
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Secretary.

F. L. BISHOP, University of Pittsburgh, Pittsburgh, Pa.

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W. O. WILEY, Jno. Wiley & Sons, New York City.

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Whose Terms Expire in 1923.

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W. H. Timbie, Cambridge, Mass.
R. S. King, Atlanta, Ga.
J. H. Felgar, Norman, Okla.
L. L. Thurstone, Washington, D. C.
C. C. Williams, Urbana, Ill.
J. C. Tracy, New Haven, Conn.

Whose Terms Expire in 1924.

P. H. Daggett, Chapel Hill, N. C.
J. H. Dunlap, New York City.
M. L. Enger, Urbana, Ill.
J. C. L. Fish, Stanford University, Cal.
F. E. Giesecke, Austin, Tex.
Morris Knowles, Pittsburgh, Pa.
O. M. Leland, Minneapolis, Minn.

Whose Terms Expire in 1925.

M. W. Alexander, New York City.
Edw. Bennett, University of Wisconsin.
H. S. Evans, University of Colorado.
E. A. Hitchcock, The Ohio State University.
H. J. Hughes, Harvard University.
C. E. Magnusson, University of Washington.
G. C. Shaad, University of Kansas.

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Mansfield Merriman, New York, N. Y.
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F. W. McNair, Houghton, Mich.
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Chas. S. Howe, Cleveland, O.
F. E. Turneaure, Madison, Wis.
H. S. Munroe, Litchfield, Conn.
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W. G. Raymond, Iowa City, Ia.
W. T. Magruder, Columbus, O.
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Anson Marston, Ames, Ia.
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John F. Hayford, Evanston, Ill.
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JACKSON, D. C., Professor of Electrical Engineering, Massachusetts Institute of Technology.

MCNAIR, F. W., President, Michigan College of Mines.

ROE, J. W., Professor of Administrative Engineering, New York University.

SCHNEIDER, H., Dean, College of Engineering and Commerce, University of Cincinnati.

SCOTT, C. F., President, Society for the Promotion of Engineering Education.

LIST OF INSTITUTIONAL MEMBERS.

MUNICIPAL UNIVERSITY OF AKRON, College of Engineering, Akron, O., Parke R. Kolbe, President..... 1914
ALABAMA POLYTECHNIC INSTITUTE, Auburn, Ala., Spright Dowell, President 1914
UNIVERSITY OF ARIZONA, Tucson, Ariz., C. H. Marvin, President .. 1914
UNIVERSITY OF ARKANSAS, Fayetteville, Ark., John C. Futrall, President 1921
ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill., H. M. Raymond, President 1921
POLYTECHNIC INSTITUTE OF BROOKLYN, Brooklyn, N. Y., Fred W. Atkinson, President..... 1921
BROWN UNIVERSITY, Providence, R. I., W. H. P. Faunce, President. 1914
UNIVERSITY OF CALIFORNIA, Berkeley, Calif., William Wallace Campbell, President 1913
CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, Calif., Robert A. Millikan, Chairman, Executive Council..... 1913
CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa., Thomas A. Baker, President 1915
CASE SCHOOL OF APPLIED SCIENCE, Cleveland, O., Chas. S. Howe, President 1913
CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C., Thomas J. Shahan, Rector 1917
UNIVERSITY OF CINCINNATI, Cincinnati, O., Frederick C. Hicks, President 1917
THE CITADEL, The Military College of South Carolina, Charleston, S. C., O. J. Bond, President..... 1914
CLEMSON COLLEGE, Clemson College, S. C., W. M. Riggs, President. 1913
UNIVERSITY OF COLORADO, Boulder, Colo., George Norlin, President. 1915
CORNELL UNIVERSITY, Ithaca, N. Y., Livingston Farrand, President. 1913
UNIVERSITY OF DELAWARE, Newark, Del., Walter Hullihen, President 1916
DOHERTY TRAINING SCHOOL, Toledo, O., H. L. Doherty, President. 1918
DREXEL INSTITUTE, Philadelphia, Pa., K. G. Matheson, President.. 1914
ECOLE POLYTECHNIQUE, Montreal, Canada, A. Lynn, Director..... 1917
THE GEORGE WASHINGTON UNIVERSITY, Washington, D. C., Howard L. Hodgkins, President..... 1913
GEORGIA SCHOOL OF TECHNOLOGY, Atlanta, Ga., M. L. Brittain, President 1913
THE HARVARD ENGINEERING SCHOOL, HARVARD UNIVERSITY, Cambridge, Mass., H. J. Hughes, Dean..... 1919

INSTITUTIONAL MEMBERS.

Iowa State College, Ames, Ia., Raymond A. Pearson, President. 1913
State University of Iowa, Iowa City, Ia., Walter A. Jessup, President 1914
Johns Hopkins University, Baltimore, Md., Frank J. Goodnow, President 1921
Kansas State Agricultural College, Manhattan, Kans., Wm. Marion Jardine, President..... 1915
The University of Kansas, Lawrence, Kans., Earnest H. Lindley, Chancellor 1914
Lafayette College, Easton, Pa., J. H. MacCracken, President... 1915
Lehigh University, Bethlehem, Pa., C. R. Richards, President .. 1914
University of Maine, Orono, Me., C. C. Little, President 1917
Marquette University, Milwaukee, Wis., Herbert C. Noonan, President 1919
Massachusetts Institute of Technology, Cambridge, Mass., S. W. Stratton, President 1918
Miami University, Oxford, O., Raymond M. Hughes, President... 1913
Michigan College of Mines, Houghton, Mich., F. W. McNair, President 1914
University of Michigan, Ann Arbor, Mich., Marion LeRoy Burton, President 1913
University of Minnesota, Minneapolis, Minn., Lotus D. Coffman, President 1919
University of Missouri, Columbia, Mo., John Carleton Jones, President 1914
University of Nebraska, Lincoln, Nebr., Samuel Avery, Chancellor 1914
College of Engineering of the Newark Technical School, Newark, N. J., Allan R. Cullimore, Director 1922
New Mexico College of A. & M. Arts, State College, N. Mex., H. L. Kent, President 1917
New Mexico School of Mines, Socorro, N. Mex., E. H. Wells, President 1923
New York, College of the City of, New York City, Sidney E. Mezes, President 1921
New York University, New York, N. Y., Elmer E. Brown, Chancellor 1913
University of North Carolina, Chapel Hill, N. C., Harry Woodburn Chase, President 1917
North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C., W. S. Riddick, President 1920

INSTITUTIONAL MEMBERS.

North Dakota, University of, University Station, Grand Forks, N. D., Thos. F. Kane, President 1913

Northeastern College, School of Engineering, Boston, Mass., Carl S. Ell, Dean 1921

University of Notre Dame, Notre Dame, Ind., Matthew Walsh, President 1913

Ohio State University, The, Columbus, O., Wm. O. Thompson, President 1921

State University of Oklahoma, Norman, Okla., Stratton D. Brooks, President 1913

Oregon Agricultural College, Corvallis, Ore., W. J. Kerr, President 1917

The Pennsylvania State College, John M. Thomas, President, State College, Pa. 1914

Towne Scientific School, University of Pennsylvania, Philadelphia, Pa., John Frazer, Dean; C. E. Clewell, Dean, Pro Tem. 1914

University of Pittsburgh, Pittsburgh, Pa., John G. Bowman, Chancellor 1913

University of Porto Rico, San Juan, P. R., Juan B. Huyke, Chancellor 1920

Princeton University, Princeton, N. J., Arthur M. Greene, Jr., Dean 1922

Purdue University, LaFayette, Ind., Edward Charles Elliott, President 1915

Queen's University, Kingston, Ont., Canada, R. Bruce Taylor, Principal 1922

Rensselaer Polytechnic Institute, Troy, N. Y., Palmer C. Ricketts, Director 1922

Rhode Island State College, Kingston, R. I., Howard Edwards, President 1913

Rose Polytechnic Institute, Terre Haute, Ind., Philip B. Woodworth, President 1916

Rutgers College, New Brunswick, N. J., W. H. S. Demarest, President 1914

Sheffield Scientific School of Yale University, New Haven, Conn., Charles Hyde Warren, Dean 1917

University of South Carolina, Columbia, S. C., Wm. D. Melton, President 1914

Stanford University, Stanford University, Calif., Ray Lyman Wilbur, President 1917

Stevens Institute of Technology, Hoboken, N. J., A. C. Humphreys, President 1913

INSTITUTIONAL MEMBERS.

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SYRACUSE UNIVERSITY, Syracuse, N. Y., Charles W. Flint, Chancellor 1913
TENNESSEE UNIVERSITY, Knoxville, Tenn., Harcourt A. Morgan, President 1921
A. & M. COLLEGE OF TEXAS, College Station, Tex., Wm. Bennet Bizzell, President 1916
UNIVERSITY OF TEXAS, Austin, Tex., Robert E. Vinson, President.. 1919
TOLEDO, UNIVERSITY OF THE CITY OF, Toledo, O., A. M. Stowe, President 1915
UNIVERSITY OF TORONTO, Toronto, Ont., Canada, R. A. Falconer, President 1917
TULANE UNIVERSITY OF LOUISIANA, New Orleans, La., Albert B. Dinwiddie, President 1921
TUFTS COLLEGE, Tufts College, Mass., John Albert Cousens, President 1914
UNION UNIVERSITY, Schenectady, N. Y., Charles A. Richmond, Chancellor 1921
UNIVERSITY OF UTAH, Salt Lake City, Utah, George Thomas, President 1914
VANDERBILT UNIVERSITY, Nashville, Tenn., J. H. Kirkland, Chancellor 1914
UNIVERSITY OF VERMONT, Burlington, Vt., Guy W. Bailey, President 1915
VILLANOVA COLLEGE, Villanova, Pa., Francis A. Driscoll, President. 1921
UNIVERSITY OF VIRGINIA, University, Va., Edwin A. Alderman, President 1915
WASHINGTON UNIVERSITY, St. Louis, Mo., Frederic A. Hall, Chancellor 1914
UNIVERSITY OF WASHINGTON, Seattle, Wash., Henry Suzzallo, President 1913
WENTWORTH INSTITUTE, Boston, Mass., A. L. Williston, Principal. 1917
UNIVERSITY OF WISCONSIN, Madison, Wis., Edward A. Birge, President 1914
WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass., Ira N. Hollis, President 1913

Total Institutional Members 88

LIST OF INDIVIDUAL MEMBERS.

Revised to March 1st, 1923.

AAGAARD, ARTHUR H., Assistant Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1922
ABBOTT, ROBINSON, Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1919
ADAMS, COMFORT, A., Abbott and James Lawrence Professor of Engineering, Harvard Engineering School, Cambridge, Mass.. 1894
ADAMS, EDWARD L., Associate Professor of Romance Languages, University of Michigan, Ann Arbor, Mich. 1921
ADAMS, FRANK D., Faculty of Applied Science, McGill University, Montreal, Canada 1909
ADAMS, F. J., Assistant Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1912
AIREY, JOHN, Professor of Engineering Mechanics; Director, Engineering Shops, University of Michigan, Ann Arbor, Mich. .. 1920
AKELEY, L. E., Dean of the College of Engineering and Professor of Physics, University of South Dakota, Vermilion, S. D..... 1910
ALDEN, C. R., Dean, College of Engineering, Ohio Northern University, Ada, O. 1921
ALDEN, GEORGE IRA, Chairman, Board of Directors, Norton Company, 48 Queen Street, Worcester, Mass. 1919
ALDRICH, WM. S., American Bridge Co., M. M. Dept., Gary, Ind. 1893
ALEXANDER, MAGNUS W., Managing Director, National Industrial Conference Board, Consulting Engineer, General Electric Co., New York City 1911
ALLEN, C. FRANK, Retired, 88 Montview St., West Roxbury, Mass. 1893
ALLEN, CHESTER, Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1917
ALLEN, C. M., Professor of Hydraulic Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1903
ALLEN, F. G., Professor of General Engineering Drawing, University of Colorado, Boulder, Colo. 1913
ALLEN, HERMAN C., Professor of Chemistry, University of Kansas, Lawrence, Kans. 1922
ALLISON, W. F., Professor of Municipal and Highway Engineering, University of Washington, Seattle, Wash. 1915
ANDERSON, A. H., Assistant Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1910

ANDERSON, D. S., Professor of Electrical Engineering, Dean of the College of Engineering, Tulane University, New Orleans, La... 1900

ANDERSON, F. PAUL, Dean of the College of Mechanical and Electrical Engineering, Professor of Mechanical Engineering and Director of the Experiment Engineering Laboratories, University of Kentucky, Lexington, Ky. 1894

ANDERSON, JAMES A., Associate Professor of Civil Engineering, Virginia Military Institute, Lexington, Va. 1922

ANDERSON, STEWART W., Associate Professor of Electrical Engineering, Virginia Military Institute, Lexington, Va. 1921

ANDERSON, WILLIAM, Professor of Physics and Electrical Engineering, Rhode Island State College, Box 74, Kingston, R. I. 1910

ANDREWS, WILLIAM O., Instructor in Civil Engineering, The Rice Institute, Houston, Tex. 1923

ANDROS, S. O., Editor, *Oil News*, 910 So. Michigan Boulevard, Chicago, Ill. 1913

ANGEL, WM. P., Assistant Professor of Physics, Tulane University, New Orleans, La. 1914

ANTHONY, G. C., Professor of Graphics and Dean of the Engineering School, Tufts College, Tufts College, Mass. 1896

APPLEBY, W. R., Director, Mines Experiment Station; Consulting Metallurgist, U. S. Bureau of Mines, Minneapolis, Minn. 1913

ARCHIBALD, FRANK, Instructor in Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1922

ARCHIBALD, LEON, Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1919

ARKLEY, L. M., Assistant Professor of Mechanical Engineering, University of Toronto, Toronto, Canada 1908

ARMS, RAY W., Assistant Professor, University of Illinois, Urbana, Ill. 1922

ARMSBY, HENRY H., Associate Professor of Civil Engineering, Student Advisor, Missouri School of Mines and Metallurgy, Rolla, Mo. 1917

ARMSTRONG, GEORGE E. W., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922

ARMSTRONG, RALPH A., Professor of Metal Work and Industrial Engineering, Northern Normal and Industrial School, Aberdeen, S. D. 1923

ARNOLD, BION J., Consulting Electrical Engineer, 105 S. La Salle St., Chicago, Ill. 1906

ASHTON, C. H., Professor of Mathematics, University of Kansas, Lawrence, Kans. 1915

ATKINSON, JOHN A., Assistant Professor of English, Iowa State College, Ames, Iowa 1922

ATKINSON, THOS. W., Dean of the College of Engineering, Louisiana State University, Baton Rouge, La. 1907

AUSTIN, F. E., Author and Publisher, Hanover, N. H. 1912

AVRAM, M. H., Lecturer on Industrial Engineering, New York University, New York, N. Y. 1918

AYDELOTTE, FRANK, President, Swarthmore College, Swarthmore, Pa. 1915

AYER, FRED. E., Dean, College of Engineering and Commerce, Municipal University of Akron, Akron, O. 1907

AYRES, FRANKLIN H., Professor of Physics, Junior College of Kansas City, Kansas City, Mo. 1918

BABBITT, HAROLD E., Associate Professor of Sanitary Engineering, University of Illinois, Urbana, Ill. 1922

BABCOCK, E. J., Dean of the College of Engineering, Professor of Industrial Chemistry, Mining and Metallurgy and Director of Experimental Engineering Stations, University of North Dakota, Grand Forks, N. D. 1907

BACON, G. M., Civil Engineer, 311 Newhouse Bldg., Salt Lake City, Utah 1907

BACON, GEORGE P., Professor of Physics, Tufts College, Tufts College, Mass. 1922

BAENDER, F. G., Professor of Heat Power Engineering, Supt., Mechanic Arts, State University of Arkansas, Fayetteville, Ark... 1917

BAGLEY, JOHN B., Professor and Head Dept. Textile Engineering, A. & M. College of Texas, College Station, Tex. 1923

BAILEY, BENJ. F., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920

BAILEY, JOHN B., Instructor in Electrical Design, Purdue University, La Fayette, Ind. 1922

BAKER, CECIL F., Professor of Architecture, Kansas State Agricultural College, Manhattan, Kans. 1917

BAKER, IRA O., Professor Emeritus of Civil Engineering, University of Illinois, Urbana, Ill. 1893

BAKER, RAY P., Professor of English, Rensselaer Polytechnic Institute, Troy, N. Y. 1919

BALL, ALBERT, Professor of Physics, Cooper Union, New York, N. Y. 1908

BALL, THEODORE R., Associate Professor of Chemistry, Washington University, St. Louis, Mo. 1922

BALLARD, W. C., JR., Assistant Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1923

BANGRATZ, ERNEST G., Instructor, Electrical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. ... 1922

BARBA, C. E., Supt. Mobile Shops, Watertown Arsenal, Watertown, Mass. 1915

BARK, ELMER, Combustion Engineer, Bureau of Water, Philadelphia, Pa. 1912

BARNARD, W. N., Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910

BARNES, F. A., Director, School of Civil Engineering, Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1904

BARNEY, EDGAR S., Principal, Hebrew Technical Institute, 36 Stuyvesant St., New York, N. Y. 1912

BARNEY, S. E., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1894

BARROWS, H. K., Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1902

BARROWS, W. E. JR., Professor of Electrical Engineering, University of Maine, Orono, Me. 1908

BARTHOLOMEW, H. C., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

BARTOW, EDWARD, Professor and Head, Department of Chemistry, State University of Iowa, Iowa City, Ia. 1921

BASHIOUM, HARRISON C., Professor and Head, Dept. of Chemical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1920

BASQUIN, O. H., Professor of Applied Mechanics, Northwestern University, Evanston, Ill. 1908

BASS, FREDERIC, Professor of Municipal and Sanitary Engineering, University of Minnesota, Minneapolis, Minn. 1904

BASSETT, WM. A., Staff Engineer, New York Bureau of Municipal Research, New York City..... 1921

BATES, ONWARD, Civil Engineer, 332 S. Michigan Ave., Chicago, Ill. 1908

BAUER, F. S., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1914

BAUER, W. C., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. 1910

BEACH, ROBIN, Acting Head, Dept. of Electrical Engineering, The Polytechnic Institute of Brooklyn, Director of Education, Brooklyn Edison Co., Inc., Brooklyn, N. Y. 1917

BEALE, FRANK S., Instructor in Mathematics, University of Maine, Orono, Me. 1922

BEAVER, J. L., Assistant Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1914

BECKER, LEWIS M., Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. 1922

BECKWITH, WIGHTMAN S., Professor of Mathematics, Ohio Northern University, Ada, Ohio 1919

BEGGS, G. E., Associate Professor of Civil Engineering, Princeton University, Princeton, N. J. 1915

BELDEN, HENRY M., Professor of English, University of Missouri, Columbia, Mo. 1922

BENEDICT, BRUCE W., Manager, Shop Laboratories, University of Illinois, Urbana, Ill. 1912

BENEDICT, H. G., 2269 Grandview Ave., Cleveland, O. 1913

BENEDICT, H. Y., Professor of Applied Mathematics and Dean of the College of Arts and Sciences, University of Texas, Austin, Texas 1906

BENKERT, H. N., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1909

BENNETT, EDW., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1909

BENTLEY, WALTER J., Instructor in General Chemistry, Armour Institute of Technology, Chicago, Ill. 1923

BENTON, J. R., Professor of Physics and Electrical Engineering, and Dean of the College of Engineering, University of Florida, Gainesville, Fla. 1905

BENZENBERG, G. H., Consulting Civil Engineer, Retired, 255 Greenbush St., Milwaukee, Wis. 1907

BERARD, S. J., Assistant Professor of Drawing and Machine Design, Brown University, Providence, R. I. 1912

BERENTS, H., Consulting Civil Engineer, 12 French Bund, Shanghai, China 1911

BERG, E. J., Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910

BERRY, H. C., Professor of Materials of Construction, University of Pennsylvania, Philadelphia, Pa. 1916

BERRY, W. J., Associate Professor of Mathematics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

BEVAN, W. A., Capt. A. S., Luke Field, Honolulu, H. T. 1915

BHOLE, V. R., P. O. Box 98, Berkeley, Calif. 1921

BIBBER, HAROLD W., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

BIGELOW, ROYAL G., Assistant Professor of Shop Work, Northwestern University, Evanston, Ill. 1922

BIKLE, J. S., Instructor in Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1918

BILLINGS, J. HARLAND, Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1919

BILLMYER, CARROLL D., Associate Professor of Machine Design, Georgia School of Technology, Atlanta, Ga. 1917

BIRD, BYRON, Professor of Structural Engineering, A. & M. College of Texas, College Station, Tex. 1923

BIRD, H. C., Professor of Civil Engineering, Pennsylvania Military College, Chester, Pa. 1914

BIRD, R. M., Professor of Chemistry, University of Virginia, University, Va. 1915

BIRD, WM. W., Professor of Mechanical Engineering, and Director of the Washburn Shops, Worcester Polytechnic Institute, Worcester, Mass. 1910

BIRK, W. OTTO, Associate Professor of English, University of Colorado, Boulder, Colo. 1920

BISHOP, C. T., Assistant Professor of Structural Engineering, Yale University, New Haven, Conn. 1912

BISHOP, F. L., Dean School of Engineering, Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1907

BISSELL, G. W., Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

BITTING, H. S., President of the Williamson Free School of Mechanical Trades, Williamson School, Delaware Co., Pa. 1909

BLACK, R. M., Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1912

BLAISDELL, A. H., Assistant Professor of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

BLAKE, FREDERIC C., Professor of Physics, The Ohio State University, Columbus, O. 1918

BLAKESLEE, D. W., Electrical Engineer, Jones & Laughlin Steel Co.; 661 Maryland Ave., Pittsburgh, Pa. 1914

BLALOCK, GROVER C., Assistant Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1918

BLANCHARD, A. H., Professor of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich. ... 1902

BLAND, J. C., Engineer of Bridges and Buildings, Pennsylvania System, 21 South Jackson Ave., Atlantic City, N. C. 1911

BLISS, COLLINS P., Professor of Mechanical Engineering, New York University, University Heights, New York City 1915

BLUMBERG, LEO, Assistant Professor of Mechanical Engineering, University of Delaware, Newark, Del. 1922

BLUME, L. F., Electrical Engineer, General Electric Co., Pittsfield, Mass. 1911

BOARDMAN, H. P., Professor of Civil Engineering, Director, Engineering Experiment Station, University of Nevada, Reno, Nev. 1914

BOARDMAN, H. S., Dean of the College of Technology and Professor of Civil Engineering, University of Maine, Orono, Me. 1903

BOERCHEL, W. H., Instructor in Mathematics, Georgia School of Technology, Atlanta, Ga. 1919

BOEHNLEIN, CHARLES, Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

BOGARD, FRANK, Supt. Mechanical and Electrical Engineering Courses, Louisiana Industrial Institute, Ruston, La. 1914

BOGGS, GILBERT H., Professor of Inorganic Chemistry, Georgia School of Technology, Atlanta, Ga. 1919

BOLTON, F. C., Dean, School of Engineering, Professor of Electrical Engineering, A. and M. College of Texas, College Station, Texas 1910

BOOMSLITER, G. P., Professor of Mechanics, West Virginia University, Morgantown, W. Va. 1912

BOON, LEONARD F., Instructor in Civil Engineering, University of Minnesota, Minneapolis, Minn. 1922

BOOTHROYD, S. L., Professor of Astronomy and Geodesy, Cornell University, Ithaca, N. Y. 1908

BORING, MAYNARD M., Assistant Secretary, Student Committee, General Electric Co., Schenectady, N. Y. 1922

BOSTON, ORLAN W., Assistant Professor of Shop Practice, Acting Director, Engineering Shops, University of Michigan, Ann Arbor, Mich. 1921

BOUCHARD, HARRY, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1921

BOWERMAN, M. R., Checker, Alliance Machine Co., Alliance, O. 1909

BOWMAN, HARRY L., Assistant Professor of Structural Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

BOYD, ALFRED, Professor of Civil Engineering, University of North Dakota, Grand Forks, N. D. 1909

BOYD, J. E., Professor of Mechanics, The Ohio State University, Columbus, O. 1907

BOYER, F. Q., National Industrial Conference Board, 703 Southern Building, Washington, D. C. 1912

BOYLE, A. C., JR., 162 No. 9th St., Laramie, Wyo. 1911

BOYLE, WALTER W., Acting Associate Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921

BOYLSTON, H. M., Professor of Metallurgy, in charge of Dept. of Metallurgical and Mining Engineering, Case School of Applied Science, Cleveland, O. 1921

BOZELL, H. V., 10th Ave. at 36th St., New York City 1912
BRACKETT, B. B., Professor of Electrical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. 1906
BRACKETT, ELMER E., Professor of Agricultural Engineering, Principal U. of N. Trades School, Engineering Dept., College of Agriculture, Lincoln, Neb. 1920
BRADEN, CLARENCE C., Instructor in Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923
BRADFORD, J. N., Professor of Architecture and University Architect, The Ohio State University, Columbus, O. 1896
BRAGG, EDWARD M., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1920
BRANCH, T. P., Professor of Civil Engineering, Georgia School of Technology, Atlanta, Ga. 1919
BRANDES, FRED C., Civil Engineer, Mamaroneck Road, White Plains, N. Y. 1920
BRASEFIELD, S. E., Professor of Applied Mathematics, Rutgers College, New Brunswick, N. J. 1916
BRAUNE, G. M., Dean, School of Engineering, University of North Carolina, Chapel Hill, N. C. 1914
BRAUTLECHT, C. A., Professor of Chemistry, University of Maine, Orono, Me. 1922
BRAY, H. C. C., Instructor to the Apprentices, Nova Scotia Steel and Coal Co., Ltd., New Glasgow, Nova Scotia, Canada 1916
BRECKENRIDGE, L. P., Professor Emeritus of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1893
BREED, C. B., Professor of Railway and Highway Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1904
BRENNEMAN, JESSE L., Assistant Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans.... 1920
BRIGMAN, BENNETT M., Professor of Engineering, University of Louisville, Louisville, Ky. 1923
BRITTON, LAWRENCE, Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922
BRODIE, HUGH, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1915
BROOKE, W. E., Head of Department of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1902
BROOKS, J. ANSEL, 8 Belvidere Place, Montclair, N. J. 1904
BROOKS, J. P., President, Clarkson College of Technology, Potsdam, N. Y. 1898

BROOKS, MORGAN, Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1899

BROWN, A. I., Assistant Professor of Steam Engineering, The Ohio State University, Columbus, O. 1914

BROWN, CARROL G., Professor of Electrical Engineering, School of Engineering of Milwaukee, Milwaukee, Wis. 1914

BROWN, EDWARD C., Instructor in Mathematics, University of Maine, Orono, Me. 1922

BROWN, F. L., Professor of Mechanics, University of Kansas, Lawrence, Kans. 1915

BROWN, HUGH A., Associate in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

BROWN, J. M., Professor of Civil Engineering, University of South Dakota, Vermilion, S. D. 1916

BROWN, PAUL E., Instructor in Elementary Surveying, Cornell University, Ithaca, N. Y. 1922

BROWN, R. A., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1917

BROWN, S. L., Associate Professor of Physics, University of Texas, Austin, Tex. 1914

BROWNE, WM. HAND, JR., Professor of Electrical Engineering, North Carolina College of A. and E., State College Station, Raleigh, N. C. 1899

BRYANS, W. R., Associate Professor of Mechanics and Machine Design, New York University, New York, N. Y. 1908

BRYANT, J. M., Professor of Electrical Engineering, University of Texas, Austin, Tex. 1910

BUCHANAN, ROY O., Associate Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1922

BUCHER, PAUL, Instructor in Mechanical Engineering, The Ohio State University, Columbus, O. 1920

BUCK, A. M., Consulting Engineer, Beeler Organization, 52 Vanderbilt Ave., New York, N. Y. 1910

BULLOCK, W. E., Assistant Secretary, American Society of Mechanical Engineers, New York, N. Y. 1917

BUMP, M. R., Chief Engineer, Henry L. Doherty & Co., 60 Wall St., New York, N. Y. 1907

BUNN, JOHN W., Instructor in Industrial Engineering, University of Kansas, Lawrence, Kans. 1922

BURDEN, HARRY P., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

BURGER, W. H., Professor of Civil Engineering, Northwestern University, Evanston, Ill. 1910

BURKHART, PAUL H., Instructor in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

BURPEE, F. E., Professor of Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1910

BURR, WM. H., Emeritus Professor of Civil Engineering, Columbia University, Consulting Engineer, 120 Broadway, New York, N. Y. 1898

BURSLEY, J. A., Professor of Mechanical Engineering, and Dean of Students, University of Michigan, Ann Arbor, Mich. 1910

BURT, H. J., Consulting Engineer, Holabird & Roche, Architects, 1027 Elmwood Ave., Wilmette, Ill. 1910

BURTON, A. E., Professor of Topographical Engineering, in charge of Department of Drawing, Harvard Engineering School, Cambridge, Mass. 1904

BUTLER, G. M., Dean, College of Mines and Engineering, University of Arizona, Tucson, Ariz. 1916

BUTLER, JOE B., Assistant Professor of Civil Engineering, Mo. School of Mines and Metallurgy, Rolla, Mo. 1922

BUTTERFIELD, A. D., Professor of Mathematics and Geodesy, University of Vermont, Burlington, Vt. 1908

BUTTERFIELD, THOMAS E., Professor of Heat Power Engineering, Lehigh University, Bethlehem, Pa. 1920

CADE, CLAUDE M., Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1921

CALDERWOOD, JAS. P., Professor of Mechanical Engineering, in charge Dept. of Mechanical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1910

CALDWELL, EDWARD, Treasurer of the McGraw-Hill Book Co., Inc., 370 7th Ave., New York, N. Y. 1905

CALDWELL, F. C., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1897

CALLAN, J. A. C., Head Professor of Civil Engineering, Alabama Polytechnic Institute; State Highway Commissioner, Auburn, Ala. 1909

CALLAN, JOHN GURNEY, Professor of Industrial Management, Graduate School of Business Administration, Harvard University, Cambridge, Mass. 1917

CAMPAMOR, J. A., Instructor in Modern Languages, Georgia School of Technology, Atlanta, Ga. 1919

CAMPBELL, MALCOLM M., Supervising Engineer, P. O. Box 385, Montreal, Que., Canada 1919

CAMPBELL, T. P., Dean, General Faculty, Virginia Polytechnic Institute, Blacksburg, Va. 1917

CANFIELD, LLOYD A., Member of Firm, The Canfield Engineering Co., Structural Engineers, 406 Flynn Bldg., Des Moines, Ia.... 1919

CANNON, J. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1915

CAPEN, S. P., Chancellor, University of Buffalo, Buffalo, N. Y. 1917

CAREY, CLIFTON O., Associate Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1921

CARLSON, W. W., Professor of Shop Practice and Superintendent of Shops, Kansas State Agricultural College, Manhattan, Kans. 1912

CARLTON, ERNEST W., Instructor, University of Nebraska, Lincoln, Nebr. 1921

CARMAN, ALBERT P., Professor of Physics and Head of Dept., University of Illinois, Urbana, Ill. 1922

CARPENTER, D. E., Dean of the Faculty, International Correspondence Schools, Scranton, Pa. 1919

CARPENTER, EDWARD L., Associate Professor of Mechanical Engineering, The Clemson Agricultural College, Clemson College, S. C. 1922

CARPENTER, H. D., 10759 Prospect Ave., Chicago, Ill. 1910

CARPENTER, HUBERT V., Professor of Mechanical and Electrical Engineering, Dean, College of Mechanic Arts and Engineering, State College of Washington, Pullman, Wash. 1917

CARPENTER, L. G., Consulting Engineer, 1455 Gilpin St., Denver, Colo. 1895

CARREL, W. J., Associate Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917

CARROLL, H. H., Assistant Professor Technical Drawing, Tufts College, Tufts College, Mass. 1911

CARSON, W. W., Emeritus Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1894

CARTY, J. J., Vice-President, American Telephone and Telegraph Co., 195 Broadway, New York, N. Y. 1907

CARY, EDWARD R., Professor of Railway Engineering and Geodesy, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

CASE, G. W., American City Engineering Co., Peoples Bank Bldg., Pittsburgh, Pa. 1914

CASTLE, DREW W., Instructor in Industrial Drawing, Joliet Township High School and Junior College, Joliet, Ill. 1923

CATLIN, W. G., Electrical Engineer, Shepard Electric Crane & Hoist Co., Montour Falls, N. Y. 1912

CAUGHEY, R. A., Associate Professor of Structural Engineering, Iowa State College, Ames, Iowa 1911

CHAMBERS, SHERMAN D., Assistant Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1921

CHANDLER, E. F., Professor of Civil Engineering, and in charge of Civil Engineering Course, University of North Dakota, University, N. D. 1907

CHARAVAY, M. A., Assistant Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914

CHARLES, ROLLIN L., Professor of Physics, Franklin and Marshall College, Lancaster, Pa. 1914

CHARTERS, WERRETT W., Professor of Education, and Director of Research Bureau for Retail Training, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

CHASE, C. H., Professor of Steam Engineering, Tufts College, Tufts College, Mass. 1900

CHATBURN, G. R., Professor and Chairman of the Department of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1899

CHESNEY, C. C., Manager and Chief Engineer, General Electric Co., Pittsfield, Mass. 1911

CHILES, GEORGE S., Consulting Engineer, 4304 Lake Park Avenue, Chicago, Ill. 1919

CHILLMAN, EDWARD F., Professor of Descriptive Geometry, Stereotomy and Drawing, Rensselaer Polytechnic Institute, Troy, N. Y. 1920

CHRISTENSEN, GEO. L., Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1905

CHURCH, EDWIN F., JR., Professor of Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

CISSEL, J. H., Associate Professor of Structural Engineering, University of Michigan, Ann Arbor, Mich. 1920

CLAPP, W. H., Professor of Mechanism and Machine Design, California Institute of Technology, Pasadena, Calif. 1914

CLARK, EDWIN E., Instructor in Mathematics and Mechanics, South Dakota School of Mines, Rapid City, S. D. 1922

CLARK, FRANK D., Assistant Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1922

CLARK, J. C., Associate Professor of Electrical Engineering, Leland Stanford, Jr. University, Stanford University, Calif. 1912

CLARK, LEROY W., Professor of Rational and Technical Mechanics, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

CLARKE, ELWYN L., Professor of Civil Engineering, Head of Civil Engineering Division, Clemson College, Clemson College, S. C. 1921

CLEGHORN, M. P., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1910

CLIFFORD, H. E., Gordon McKay Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1907

CLO, J. H., Professor and Head, Department of Physics, University of Pittsburgh, Pittsburgh, Pa. 1921

CLOKE, PAUL, Professor of Electrical Engineering, University of Arizona, Tucson, Ariz. 1919

CLOYD, EDWARD L., Assistant Professor of Drawing and Descriptive Geometry, and Dean of Students, North Carolina State College of A. & E., West Raleigh, N. C. 1920

CLUTZ, FRANK H., B. F. Blough Professor of Civil Engineering, Gettysburg College, Gettysburg, Pa. 1922

COAHRAN, J. M., Keystone Wood Products Co., Colegrove, Pa. 1916

COBB, COLLIER, Professor and Head of the Department of Geology and Mineralogy, University of North Carolina, Chapel Hill, N. C. 1916

CODDINGTON, E. F., Professor of Mechanics, The Ohio State University, Columbus, O. 1911

CODWISE, HENRY R., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914

COFER, DAVID BROOKS, Professor of English, A. & M. College of Texas, College Station, Tex. 1922

COFFIN, C. A., Chairman, Board of Directors, General Electric Co., 120 Broadway, New York, N. Y. 1911

COLE, ALFRED D., Professor of Physics, Head of Department, The Ohio State University, Columbus, O. 1918

COLER, CARL S., Manager, Educational Department, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

COLLYER, NORMAN, Famous Players-Lasky Corporation 485 Fifth Avenue, New York City 1919

COMSTOCK, C. E., Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1909

COMSTOCK, E. H., Professor of Mine Plant and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn. 1907

COMSTOCK, F. M., Professor of Descriptive Geometry, Case School of Applied Science, Cleveland, O. 1907

CONKLING, L. D., Professor of Civil Engineering, Montana State A. & M. College, Bozeman, Mont. 1912

CONNER, S. L., Associate Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1912

CONRAD, L. E., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1908

CONSOLIVER, EARL L., Director, Department of Automotive Electrotechnics, School of Engineering of Milwaukee, Milwaukee, Wis. 1918

CONSTANT, F. H., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1896
COOK, A. L., Supervisor and Head of the Dept. of Industrial Electrical Engineering, Pratt Institute, Brooklyn, N. Y. 1913
COOKE, MORRIS L., Consulting Engineer in Management, 1109 Finance Bldg., Philadelphia, Pa. 1910
COOLEY, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1898
COOPER, F. L., Instructor in Physics, Yale University, New Haven, Conn. 1912
COOVER, MERVIN S., Associate Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1923
COPPERSMITH, C. W., Associate Professor of Machine Design, Case School of Applied Science, Cleveland, O. 1915
CORBETT, L. J., Engineering Dept., Pacific Gas and Electric Co., 445 Sutter St., San Francisco, Calif. 1912
CORBIN, C. E., Professor of Mathematics, College of the Pacific, San Jose, Calif. 1917
CORNELL, W. R., Assistant Professor of Mechanics, Cornell University, Ithaca, N. Y. 1910
CORP, C. I., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1910
CORY, C. L., Dean, College of Mechanics and Professor of Electrical Engineering, University of California, Berkeley, Calif. 1915
COSTER, E. L., Literary Engineer, 25 Broad St., Room 1440, New York, N. Y. (Life Member) 1911
COUCH, HARVEY C., President, Arkansas Light and Power Co., Pine Bluff, Ark. 1921
COULSON, J. C., Assistant Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1921
COVELL, G. A., Dean of the School of Engineering and Mechanic Arts, Oregon Agricultural College, Corvallis, Ore. 1908
COX, J. J., Engineer-Manager for Board of County Road Commissioners, Washtenaw County, Ann Arbor, Mich. 1915
CRAIN, L. D., Professor of Mechanical Engineering, Head of Department, Colorado Agricultural College, Ft. Collins, Colo..... 1918
CRANDALL, CARL, Assistant Professor of Railway Engineering, Cornell University, Ithaca, N. Y. 1922
CRANDELL, JOHN S., Consulting Engineer, 40 Rector St., New York, N. Y. 1912
CRANE, RUFUS, 407 W. William St., Delaware, Ohio 1918
CRAWFORD, CHARLES W., Assistant Professor of Mechanical Engineering, A. & M. College of Texas, College Station, Tex. 1923

CRAWFORD, D. F., President, Westinghouse Union Battery Co., Swissvale, Pa. 1914

CRAWFORD, I. C., Associate Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1913

CREAGER, PAUL S., Instructor in Electrical Engineering, Rutgers College, New Brunswick, N. J. 1923

CREAGMILE, WM. B., James G. Biddle, Scientific Instruments, 1211 Arch St., Philadelphia, Pa. 1909

CREAMER, WALTER J., JR., Assistant Professor of Electrical Engineering, University of Maine, Orono, Me. 1922

CREEK, HERBERT L., Professor and Head, Dept. of English, Purdue University, LaFayette, Ind. 1922

CREIGHTON, E. E. F., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1910

CREIGHTON, W. H. P., Professor of Mechanical and Sugar Engineering, Tulane University, New Orleans, La. 1893

CROCKETT, CHAS. W., Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. 1912

CROFOOT, GEORGE E., Assistant Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1919

CROOK, L. H., Instructor in Mechanics, Catholic University of America, Washington, D. C. 1921

CROSBY, W. W., Supt., Grand Canyon National Park, Grand Canyon, Ariz. 1911

CROSS, HARDY, Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1912

CROSSMAN, RALPH S., Instructor, College of Engineering, University of Illinois, Urbana, Ill. 1919

CROUCH, C. H., Dean of Engineering, Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1907

CRUM, R. W., Engineer of Materials and Tests, Iowa State Highway Commission, Ames, Ia. 1912

CULLIMORE, ALLAN R., Director, Newark Technical School, Newark, N. J. 1914

CUMMINGS, HAROLD N., Associate Professor of Civil Engineering and Mathematics, Delaware College, Newark, Del. 1918

CURTNER, D. L., Assistant Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1921

CUSHMAN, PAUL A., Assistant Professor of Mechanical Engineering, The Polytechnic Institute, Brooklyn, N. Y. 1922

DAGGETT, P. H., Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1910

DAINS, FRANK BURNETT, Professor of Chemistry, University of Kansas, Lawrence, Kans. 1922

DAKE, CHARLES LAURENCE, Professor of Geology, School of Mines and Metallurgy, Rolla, Mo. 1919

DALAKER, HANS H., Associate Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

DALBURG, F. A., care of Standard Oil Company of Venezuela, Apartado 228, Caracas, Venezuela, S. A. 1908

DALE, R. BURDETTE, Professor of Steam and Gas Engine Design, Rensselaer Polytechnic Institute, Troy, N. Y. 1921

DANFORTH, R. H., Professor of Mechanics and Hydraulics in charge of Materials Testing Laboratories, Case School of Applied Science, Cleveland, O. 1914

DANIEL, J. L., Professor of Industrial Chemistry, Georgia School of Technology, Atlanta, Ga. 1919

DANIELS, JOSEPH, Associate Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

DARGAN, F. T., Professor of Electrical Engineering, Clemson A. & M. College of South Carolina, Clemson College, S. C. 1912

DAUGHERTY, ROBERT L., Professor of Mechanical and Hydraulic Engineering, California Institute of Technology, Pasadena, Calif. 1919

DAVEE, EVERETT W., Instructor, University of Maine, Orono, Me. 1922

DAVIDSON, J. BROWLEE, Professor of Agricultural Engineering, Iowa State College, Ames, Iowa 1915

DAVIDSON, M. W., Professor of Mechanical Engineering, University of South Dakota, Vermilion, S. D. 1917

DAVIDSON, WARD F., Director of Engineering Investigation, Brooklyn Edison Co., Brooklyn, N. Y. 1920

DAVIS, GEO. JACOB, JR., Dean and Professor of Civil Engineering, University of Alabama, University, Ala. 1918

DAVIS, JAS. C., Assistant Professor of Mechanical Drawing, University of Oklahoma, Norman, Okla. 1909

DAVIS, JOHN C., Citizens Bureau of Municipal Efficiency, 425 E. Water St., Milwaukee, Wis. 1908

DAVIS, R. E., Associate Professor of Civil Engineering, University of California, Berkeley, Calif. 1913

DAWES, C. L., Assistant Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1915

DAY, CHARLES, President, Day & Zimmerman, Inc., Engineers, 611 Chestnut St., Philadelphia, Pa. 1911

DEARBORN, C. S., Mechanical Engineer, Blythe, Calif. 1910

DEARBORN, R. H., Head, Dept. of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1917

DE BAUFRE, WM. L., Professor of Mechanical Engineering and chairman of Dept., University of Nebraska, Lincoln, Nebr. 1920

DEFOE, L. M., Professor of Mechanics, University of Missouri, Columbia, Mo. 1904

DE LA MATER, R. GRIFFIN, Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922

DELAY, FREDERIC A., Head Lecturer, Chicago Central Station Institute, Room 950, 72 W. Adams St., Chicago, Ill. 1909

DELLENBAUGH, FREDERICK S., JR., Assistant Professor of Electrical Machinery, Massachusetts Institute of Technology, Cambridge, Mass. 1922

DEMOREST, D. J., Professor of Metallurgy, The Ohio State University, Columbus, O. 1913

DENNY, GEO. H., President, University of Alabama, University, Ala. 1913

DENT, J. A., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1911

DENTON, F. W., 12 Reservoir St., Cambridge, Mass. 1894

DEPUY, C. E., Professor of Mechanical Engineering, Lewis Institute, Chicago, Ill. 1908

DERBY, FRANK H., Assistant Professor of Civil Engineering, Washington University, St. Louis, Mo. 1922

DERICKSON, DONALD, Professor of Civil Engineering, Tulane University of La., New Orleans, La. 1922

DERLETH, CHAS., JR., Professor of Civil Engineering and Dean of the College of Civil Engineering, University of California, Berkeley, Calif. 1904

DIBERT, H. M., Secretary and Treasurer, W. & L. E. Gurley, Troy, N. Y. 1913

DICKERSON, H. S., Head, Mechanical Engineering Dept., Nanyang University, 862 "F" Avenue Haig, Shanghai, China 1912

DICKINSON, L. P., Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1914

DICKS, N. J., Doherty Training School, Toledo, O. 1918

DIEDERICHS, HERMAN, Director, Sibley School of Mechanical Engineering and Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1915

DIEFENDORF, ADELBERT, Instructor in Engineering Drawing, University of Illinois, Urbana, Ill. 1922

DIEMER, HUGO, Director, Industrial Management Division, La Salle Extension University, Chicago, Ill. 1902

DIETRICH, JOHN J., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

DIETZ, J. W., Employment Director, Western Electric Co. Inc., 463 West St., New York, N. Y. 1911

DILLINGHAM, HARLEY C., Instructor in Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923

DILLON, THEODORE H., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

DIRKS, HENRY B., Professor of Mechanical Engineering, Michigan Agricultural College, East Lansing, Mich. 1920

DIX, L. E., Professor of Hydraulic and Sanitary Engineering, Norwich University, Northfield, Vt. 1917

DIX, THURMAN W., Commissioner of Highways, State of Vermont, Montpelier, Vt. 1919

DOBBS, F. E., Instructor in Estimating and Practical Mathematics, Wentworth Institute, Boston, Mass. 1912

DODGE, H. L., Professor of Physics, University of Oklahoma, Norman, Okla. 1919

DOERINGFELD, HARRY A., Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. 1923

DOGGETT, L. A., Professor of Electrical Engineering, U. S. Naval Academy, Annapolis, Md. 1914

DOHERTY, H. L., President, Cities Service Company, 60 Wall St., New York, N. Y. 1904

DOMONOSKE, ARTHUR B., Chief Engineer Doble Steam Motors, San Francisco, Calif. 1913

DONALD, WM, J., Managing Director, National Association of Corporation Training, 20 Vesey St., New York City. 1922

DOOLEY, C. R., Manager, Personnel and Training, Standard Oil Co. (N. J.), 26 Broadway, New York, N. Y. 1907

DOREMUS, HAL C., Instructor in Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923

DORROH, J. H., Dean, School of Engineering, Professor of Civil Engineering, University of Mississippi, University, Miss. 1917

DOUGHERTY, H. R., Professor and Head of Department of Mathematics, New York Military Academy, Cornwall-on-Hudson, N. Y. 1915

DOUGHERTY, N. W., Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1914

DOUGLAS, J. F. H., College of Engineering, Marquette University, Milwaukee, Wis. 1910

DOWD, WYLLYS E. JR., Secretary, Power Specialty Company, 111 Broadway, New York City 1921

DOWNING, RICHARD E., Instructor in Electrical Engineering, University of Maine, Orono, Me. 1922

DRAFFIN, JASPER, O., Associate in Mechanics, University of Illinois, Urbana, Ill. 1917

DRANE, WALTER H., Chief Engineer, Smith County Highway Commissioner, Smith Co., Lebanon, Tenn. 1919
DRAYER, C. E., Secretary, American Association of Engineers, 63 East Adams St., Chicago, Ill. 1922
DRUCKER, ARTHUR E., Assistant Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1922
DUCEY, EDW. J., Structural Engineer, Fort Pitt Bridge Works, Canonsburg, Pa. 1915
DUCKERING, W. E., Professor of Engineering Problems, The Iowa State College, Ames, Iowa 1917
DUDLEY, SAMUEL W., Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. .. 1921
DUFF, ALEXANDER W., Professor of Physics, Worcester Polytechnic Institute, Worcester, Mass. 1921
DUFF, C. M., Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. 1912
DUFFEY, C. F., Professor of Electrical Engineering, University of Porto Rico, Box 143, Mayaguez, P. R. 1916
DUFOUR, F. O., Professor of Civil Engineering, Director of the Division and of Materials Testing Laboratories, Lafayette College, Easton, Pa. 1906
DUKES, R. G., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907
DUNCAN, M. M., Vice-President and General Manager, Cleveland Cliffs Iron Co., and Member Board of Control, Michigan College of Mines, Ishpeming, Mich. 1905
DUNHAM, CLARENCE W., Assistant, Dept. of Rational and Technical Mechanics, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
DUNHAM, HEBER, Assistant Professor of Engineering Drawing, New York University, New York, N. Y. 1914
DUNLAP, J. H., Secretary, American Society of Civil Engineers, 33 West 39th St., New York City 1916
DUNN, HAROLD, Engineer, Westinghouse E. & M. Co., East Pittsburgh, 1328 Singer Place, Wilkensburg, Pa. 1917
DUPONT, T. C., Wilmington, Del. (Life Member) 1910
DUPRIEST, JOHN R., Professor of Power Plant Engineering and Design, Oregon Agricultural College, Corvallis, Ore. 1919
DURAND, W. F., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1899
DURST, ROSS, C., Professor of Civil Engineering, Municipal University of Akron, Akron, O. 1918
DUVALL, W. CLINTON, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1919

DWIGHT, H. B., Electrical Engineer, Colo. P. M. Commission, Capitol Bldg., Denver, Colo. 1912

DYCHE, H. E., Professor and Head of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

DYER, F. C., Assistant Professor of Mining Engineering, Faculty of Applied Science, University of Toronto, Toronto, Ont., Canada 1913

DYSART, P. M., Physics Dept., Schenley High School, Pittsburgh, Pa. 1911

EARLE, CHESTER R., Instructor in English, Michigan College of Mines, Houghton, Mich. 1922

EARLE, S. B., Director of the Engineering Department, and Professor of Mechanical Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1912

EBAUGH, W. C., Professor of Chemistry, Denison University, Granville, Ohio 1908

ECKEL, C. L., Assistant Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1914

ECKHARD, G. F., Professor of Structural Engineering, University of Vermont, Burlington, Vt. 1910

EDDY, C. L., Associate Professor of Railway Engineering, Case School of Applied Science, Cleveland, O. 1910

EDGAR, R. F., Instructor in Graphics, University of Pittsburgh, Pittsburgh, Pa. 1920

EDGECOMB, R. E., Chief Engineer City Bldg. Dept., Omaha, Neb. .. 1912

EDISON, OSKAR E., Assistant Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1922

EDMANDS, S. S., Director, School of Science and Technology, Pratt Institute, Brooklyn, N. Y. 1903

EDWARDS, JAMES H., Assistant Chief Engineer, American Bridge Co., 71 Broadway, New York City 1922

EGGERS, HENRY C. T., Instructor, University of Minnesota, Minneapolis, Minn. 1922

ELDRED, C. P., John A. Manning Paper Co. & Manning Abrasine Co., Troy, N. Y. 1918

ELL, CARL S., Dean, School of Engineering, Northeastern University, Boston, Mass. 1917

ELLIOTT, BEN. G., Professor of Mechanical Engineering, University of Wisconsin, Madison, Wis. 1912

ELLIOTT, D. S., Professor of Physics, Tulane University, New Orleans, La. 1919

ELLIOTT, ROY W., Supt. of Buildings and Grounds, Purchasing Agent, Board of Education, Topeka, Kans. 1921

ELLIS, C. A., Vice President, The Strauss Bascule Bridge Co., 225 North Michigan Ave., Chicago, Ill. 1916
ELLIS, FREDERICK, 11428 96th St., Edmonton, Alberta, Canada .. 1912
ELLIS, W. T., Professor of Power Engineering and Machine Design, Virginia Polytechnic Institute, Blacksburg, Va. 1910
ELY, JOHN A., Professor of Engineering, Dean, College of Arts and Science, St. Johns University, Shanghai, China 1914
ELY, SUMNER B., Assistant Professor, Dept. of Commercial Engineering, Carnegie Institute of Technology, Pittsburgh, Pa.... 1921
EMERSON, WALTER D., Assistant Professor of Mechanical Engineering, University of Maine, Orono, Me. 1920
EMERSON, WM. H., Dean and Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1912
EMMONS, WALTER J., Professor of Highway Engineering, A. & M. College of Texas, Austin, Tex. 1923
EMRICK, PAUL S., Electrical Engineer, LaFayette, Ind. 1914
EMSWILER, J. E., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1919
ENDSLEY, L. E., Professor of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1907
ENGEL, GODFREY, Consulting Engineer, Specialty Sugar Mfg. Plants, 17 Battery Place, New York, N. Y. 1915
ENGER, M. L., Professor of Mechanics and Hydraulics, University of Illinois, Urbana, Ill. 1907
ENGLEHART, RUSSELL J., Assistant Supt., Forge Laboratory, University of Illinois, Urbana, Ill. 1922
ENO, F. H., Professor of Municipal Engineering, The Ohio State University, Columbus, O. 1907
ENSIGN, N. E., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1915
ERIKSON, EDWARD L., Assistant Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1921
ESTEP, THOS. G., Associate Professor of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1922
ESTY, WILLIAM, Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1898
EVANS, F. H., Dean, College of Industrial Science, Toledo University, Toledo, O. 1907
EVANS, H. B., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. 1908
EVANS, H. S., Dean, College of Engineering, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1905
EVANS, WESTON S., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922

EVERETT, CHARLES W., Instructor, Washington University, St. Louis, Mo. 1922
EWING, D. D., Professor of Electrical Railway Engineering, Purdue University, LaFayette, Ind. 1910
EYRE, JAMES R., Instructor, Iowa State University, Iowa City, Ia. 1921
EYRE, T. T., Albuquerque, N. Mex. 1909
FAIG, J. T., President, Ohio Mechanics Institute, Cincinnati, O..... 1899
FAIRFIELD, JOHN G., Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
FAIRMAN, SEIBERT, Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1921
FARNHAM, C. S., Associate Professor of Civil Engineering, Yale University, New Haven, Conn. 1908
FARNHAM, WALTER E., Assistant Professor of Graphics, Tufts College, Tufts College, Mass. 1919
FELGAR, J. H., Dean of the College of Engineering, University of Oklahoma, Norman, Okla. 1912
FELKER, EVERETT J., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922
FERGUSON, O. J., Professor of Electrical Engineering, and Dean, College of Engineering, University of Nebraska, Lincoln, Nebr. 1908
FERMIER, E. J., Professor of Mechanical Engineering, Texas A. and M. College, Director, Texas Engineering Experiment Station, College Station, Texas 1903
FERNALD, R. H., Director, Department of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1899
FERRIS, CHARLES E., Professor of Mechanical Engineering and Dean of Engineering, University of Tennessee, Knoxville, Tenn. 1913
FESSENDEN, E. A., Professor of Mechanical Engineering Rensselaer Polytechnic Institute, Troy, N. Y. 1912
FIELD, F., Professor of Mathematics, Dean of Men, Georgia School of Technology, Atlanta, Ga. 1919
FIELD, PETER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1921
FINCH, F. R., Assistant Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1913
FINE, H. B., Professor of Mathematics and Dean of the Departments of Science, Princeton University, Princeton, N. J. 1909
FISH, F. A., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1905
FISH, J. C. L., Professor of Railroad Engineering, Leland Stanford Junior University, Stanford University, Calif. 1919

FISHER, HENRY T., Dean, School of Engineering, Valparaiso University, Valparaiso, Ind. 1923
FISHER, JAMES, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1899
FISK, IRA W., West Virginia University, Morgantown, W. Va. 1914
FITCH, ALBERT L., Professor of Physics, University of Maine, Orono, Me. 1922
FITTERER, J. C., Professor of Civil and Irrigation Engineering, and Acting Dean, College of Engineering, University of Wyoming, Laramie, Wyo. 1912
FITTZ, RAYMOND U., Assistant Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1922
FLATHER, J. J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1898
FLEMING, ARTHUR P. M., Manager, Research and Education Dept., Metropolitan-Vickers Electrical Co., Manchester, England 1922
FLEMING, ROBINS, Designing Engineer, American Bridge Co., 30 Church St., New York City 1921
FLEMING, V. R., Assistant Professor of Applied Mechanics, University of Illinois, Urbana, Ill. 1909
FLETCHER, A. B., Director of Public Works, State of California, Sacramento, Calif. 1913
FLORES, BALBINO R., Instructor in Romance Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
FLOWERS, A. E., Consulting Engineer, Chemical Machinery Construction Co., Ridgewood, N. J. 1910
FOCKE, T. M., Dean of Faculty, Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1907
FOGG, R. J., Professor and Head, Civil Engineering Dept., Lehigh University, Bethlehem, Pa. 1910
FOLK, J. THOMAS, Instructor in Mechanical Engineering Department, Louisiana Industrial Institute, Ruston, La. 1914
FOLK, S. B., Instructor in Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1921
FOLWELL, A. P., Managing Editor, *Public Works*, and Consulting Engineer, Montclair, N. J. 1916
FOLTZ, LEROY S., Associate Professor of Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. 1918
FOOTE, F. S., Professor of Railroad Engineering, University of California, Berkeley, Calif. 1910
FORAKER, F. A., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1914
FORD, ARTHUR H., Professor of Electrical Engineering, State University of Iowa, Iowa City, Ia. 1903

FORD, H. C., Associate Professor of Civil Engineering, Iowa State College, Ames, Ia. 1907

FORMAN, A. H., Professor of Electrical Engineering, West Virginia University, Morgantown, W. Va. 1916

FOSS, F. E., Professor of Civil Engineering, Cooper Union, New York, N. Y. 1893

FOSS, MARTIN M., Vice President, McGraw-Hill Book Co., Inc., 370 7th Ave., New York, N. Y. 1909

FOSTER, E. S., Assistant Chief Engineer The Packard Electric Co., Warren, Ohio 1911

FOSTER, JOHN M., Assistant Professor of Machine Design and Applied Mechanics, North Carolina State College of A. & E., College Station, N. C. 1919

FOULK, C. W., Professor of Analytical Chemistry, The Ohio State University, Columbus, O. 1913

FOX, EARLE B., Professor of Materials and Metallurgy, Post Graduate Dept., U. S. Naval Academy, Annapolis, Md. 1920

FOX, FREDERICK H., Assistant Professor of Civil Engineering, Tulane University of Louisiana, New Orleans, La. 1922

FRAMPTON, GEORGE O., Director, Dept. of Industrial Service, Toledo University, Toledo, O. 1921

FRANK, E. D. A., 1015 Shepard Avenue, Milwaukee, Wiss. 1917

FRANKLIN, WILLIAM S., Professor of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1900

FRARY, RODNEY W., Instructor in Mathematics, A. & M. College of Texas, College Station, Tex. 1923

FRAZER, JOHN, Dean of the Towne Scientific School and Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa... 1914

FRAZIER, F. F., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912

FREEMAN, E. H., Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1909

FREEMAN, W. EDWIN, Assistant Dean, College of Engineering, Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1911

FRENCH, A. W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1900

FRENCH, ROBERT W., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. .. 1920

FRENCH, THOS. E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1899

FREY, GEORGE J., Head, Department of Mechanical Drawing and Machine Design, Ohio Mechanics Institute, Cincinnati, Ohio 1919

FROST, HARWOOD, President, Brown Portable Conveying Machinery Co., Room 624, 10 S. LaSalle St., Chicago, Ill. 1907

FRY, H. P., Assistant Professor of Mechanical Drawing, Mechanical Engineering Department, University of Pennsylvania, Philadelphia, Pa. 1914

FULLAN, M. T., Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1915

FULLER, A. H., Professor and Head of Civil Engineering, The Iowa State College, Ames, Ia. 1901

FULLER, C. E., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907

FURIA, JOHN J., Federal Coördinator, College of the City of New York, New York, N. Y. 1919

FURMAN, FRANKLIN DER., Professor of Machine Design, Dean for Junior Class, Stevens Institute of Technology, Hoboken, N. J.. 1907

FURR, M. W., Associate Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1917

FUSSELL, LEWIS, Professor of Electrical Engineering, Chairman, Divison of Engineering, Swarthmore College, Swarthmore, Pa. 1921

GARMAN, H. O., Consulting Engineer, 2062 N. Meridian St., Indianapolis, Ind. 1907

GARRETT, L. E., Associate Professor of Mathematics, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1910

GARRETT, SEYMOUR S., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1922

GARST, HARVEY O., Professor of Highway Engineering, Missouri School of Mines and Metallurgy, Rolla, Mo. 1922

GAUVREAU, VICTOR, Instructor in Gas Engine and Machine Design, University of Minnesota, Minneapolis, Minn. 1922

GAY, R. W., 1928 Vinton Ave., Memphis, Tenn. 1907

GEE, GEORGE B., Assistant Professor of Northeastern University, Boston, Mass. 1919

GEORGE, S. G., Professor of Mechanics of Engineering, School of Civil Engineering, College of Engineering, Cornell University, Ithaca, N. Y. 1914

GETCHELL, E. L., Assistant Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1921

GIBSON, J. L., Dean of School of Arts and Sciences, Professor of Mathematics, University of Utah, Salt Lake City, Utah 1911

GIESECKE, F. E., Professor of Architectural Engineering, University of Texas, Austin, Tex. 1893

GILBERT, EARL R., Architect, Department of Architectural Drafting and Design, Technological High School, Atlanta, Ga. 1919

GILBRETH, F. B., 68 Eagle Rockway, Montclair, N. J. 1911

GILCHRIST, J. F., Vice President, Commonwealth Edison Co., Chicago, Ill. 1911

GILKEY, HERBERT J., Instructor in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1922

GILL, GRAYSON, Associate Professor of Architecture, A. & M. College of Texas, College Station, Tex. 1923

GILLESPIE, PETER, Professor of Civil Engineering, University of Toronto, Toronto, Ontario 1905

GILLETTE, H. P., Editor in Chief, *Engineering & Contracting*, 9 S. Clinton St., Chicago, Ill. 1905

GILMORE, DAVID P., Associate Professor of Structural Engineering, The State University of Iowa, Iowa City, Ia. 1919

GILMORE, L. H., Professor of Physics, California Institute of Technology, Pasadena, Calif. 1912

GILMOUR, WALTER A., Instructor in Civil Engineering, Akron Municipal University, Akron, O. 1922

GLADSON, W. N., Vice President, Dean, College of Engineering, University of Arkansas, Fayetteville, Ark. 1903

GLEASON, RUTHERFORD E., Instructor in Mathematics, Princeton University, Princeton, N. J. 1922

GODFREY, HOLLIS, President, The Engineering Economics Foundation, 3 Joy St., Boston, Mass. 1913

GOLDINGHAM, A. H., Sales Engineer, De la Vergne Machine Co., New York, N. Y. 1911

GOLDMAN, OTTO B., Professor of Mechanical Engineering, New Mexico A. & M. College, State College, N. M. 1919

GOLDSMITH, ADOLPH, Instructor, Massachusetts Institute of Technology, Cambridge, Mass. 1922

GOODENOUGH, G. A., Professor of Thermodynamics, University of Illinois, Urbana, Ill. 1900

GOSS, W. F. M., President, Railway Car Manufacturers' Association, 61 Broadway, New York, N. Y. 1893

GOUGH, ACHILLES C., Dean, School of Engineering and Trades, Idaho Technical Institute, Pocatella, Ida. 1922

GOULD, FLETCHER A., 508 Grove St., East Lansing, Mich. 1916

GOULDING, HERBERT J., Associate Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1914

GRAHAM, WM. P., Vice Chancellor, Syracuse University, Syracuse, N. Y. 1912

GRAM, L. M., Professor of Structural Engineering, University of Michigan. Ann Arbor, Mich. 1913

GRANDLIENARD, EDWARD T., Assistant Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1919

GRAY, JOHN C., Assistant Professor, Dept. of Electrical Engineering and Physics, U. S. Naval Academy, Annapolis, Md. 1920

GREENE, ARTHUR M., JR., Dean, School of Engineering, Professor of Mechanical Engineering, Princeton University, Princeton, N. J. 1903

GREENOUGH, MAURICE B., Vice-President, Southern Clay Mfg. Co., 801 Volunteer Bldg., Chattanooga, Tenn. 1912

GREGORY, W. B., Professor of Experimental Engineering, Tulane University; Irrigation Engineer, U. S. Department of Agriculture, New Orleans, La. 1907

GREINER, J. E., Consulting Engineer, Fidelity Bldg., Baltimore, Md. 1911

GREINER, OTTO A., Associate Professor of Modern Languages, Purdue University, La Fayette, Ind. 1922

GREVE, F. W., JR., Associate Professor of Hydraulic Engineering, Purdue University, LaFayette, Ind. 1912

GRIDER, RICHARD L., Associate Professor of Mining, University of Kansas, Lawrence, Kans. 1922

GRIFFIN, FRED S., Assistant Professor of Mechanical Engineering, Municipal University of Akron, Akron, O. 1922

GRISWOLD, ROBT. G., Chief Technologist, H. L. Doherty & Company, 60 Wall St., New York, N. Y. 1917

GROAT, B. F., 6306 Woodbine Ave., Philadelphia, Pa. 1899

GRONDAHL, L. O., Director of Research, Union Switch and Signal Co., Swissvale, Pa. 1915

GROVER, ARCHER L., Professor of Engineering Drawing, University of Maine, Orono, Me. 1922

GROVER, N. C., Chief Hydraulic Engineer, United States Geological Survey, Washington, D. C. 1894

GRUMBEIN, J. B., Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1912

GRUNDHOEFFER, E. F., The Pennsylvania State College, State College, Pa. 1915

GUMMERE, H. V., Breezy Knoll Farm, Glen Mills, Delaware Co., Pa. 1914

HAIGLER, CHAS. E., In charge of Co-Ordination Dept., Franklin Union, Division of Rehabilitation, Boston, Mass. 1912

HALE, R. S., Supt., Special Research Dept. Edison Illuminating Company of Boston, Boston, Mass. 1916

HALL, ARTHUR A., City Manager, Morgantown, W. Va. 1918

HALL, BURRILL R., Supt. of Pattern Shop, University of Illinois, Urbana, Ill. 1920

HALL, JAMES A., Associate Professor of Mechanical Engineering, Brown University, Providence, R. I. 1914

HALL, W. H., Professor of Engineering, Trinity College, Durham, N. C. 1917

HALLOCK, J. W., Professor and Head of Industrial Engineering, Director, Co-Operative Work, University of Pittsburgh, Pittsburgh, Pa. 1915

HALSEY, W. D., Hartford Steam Boiler & Insurance Co., Hartford, Conn. 1917

HAM, WM. R., Professor of Physics, Pennsylvania State College, State College, Pa. 1914

HAMERSCHLAG, A. A., President, Research Corporation of New York and of the Henderson Corporation of Pittsburgh, 511 Wood St., Pittsburgh, Pa. 1903

HAMILTON, EDW. P., Secretary, John Wiley & Sons., Inc., 432 Fourth Ave., New York, N. Y. 1914

HAMILTON, GEO. A., 532 Morris Ave., Elizabeth, N. J. 1911

HAMILTON, J. McC., President, Montana State College of A. & M. Arts, Bozeman, Mont. 1912

HAMILTON, J. O., Professor of Physics, Kansas State Agricultural College, Manhattan, Kans. 1910

HAMMER, M. R., Purdue University, LaFayette, Ind. 1917

HAMMOND, H. P., Professor of Sanitary and Hydraulic Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1916

HANCOCK, CHARLES, Professor of Mechanical Engineering, University of Virginia, University, Va. 1915

HANEY, J. W., Associate Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1916

HANNA, U. S., Professor of Mathematics, Indiana University, Bloomington, Ind. 1915

HARBARGER, SADA A., Instructor in English, The Ohio State University, Columbus, Ohio 1918

HARDING, C. F., Professor of Electrical Engineering and Director of the Electrical Laboratories, Purdue University, LaFayette, Ind. 1908

HARLAN, ORLAN K., Assistant Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1921

HARPER, A. C., Pratt Institute, Brooklyn, N. Y. 1911

HARRIS, C. L., Associate Professor of Architectural Engineering, The Pennsylvania State College, State College, Pa. 1914

HARRIS, WALTER B., Professor of Geodesy, Princeton, University, Princeton, N. J. 1914

HARTER, G. A., Professor of Mathematics and Physics, University of Deleware, Newark, Del. 1905

HARTIG, HENRY E., Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

HARTMANN, F. M., Dean of Day School, Professor of Electrical and Mechanical Engineering, Cooper Union, New York, N. Y. 1908
HASKELL, E. E., Professor of Experimental Hydraulics, Emeritus, Cornell University, Ithaca, N. Y. 1907
HASKELL, F. E., Assistant Examiner, U. S. Patent Office, Washington, D. C. 1914
HASKELL, M. W., Professor of Mathematics, University of California, Berkeley, Cal. 1910
HATCH, DAVID A., Assistant Professor of Mathematics, Lafayette College, Easton, Pa. 1908
HATT, W. K., Professor of Civil Engineering and Director of the Materials Testing Laboratory, Purdue University, LaFayette, Ind. 1895
HAULTAIN, H. E. T., Professor of Mining Engineering, University of Toronto, Toronto, Ont., Canada 1911
HAUSMANN, ADELBERT A., Instructor in Descriptive Geometry and Drawing, Case of School of Applied Science, Cleveland, O. 1923
HAWES, J. H., Junior Master, Dorchester High School, Dorchester Center, 24, Mass. 1900
HAY, EARL D., Dean, College of Engineering, Des Moines University, Des Moines, Iowa 1915
HAYES, L. D., Professor of Machine Design and Construction, West Virginia, Morgantown, W. V. 1922
HAYFORD, J. F., Director of the College of Engineering, Northwestern University, Evanston, Ill. 1905
HAYWARD, H. W., Professor of Materials of Engineering, Massachusetts Institute of Technology, Cambridge,Mass..... 1904
HAZELTINE, L. A., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1910
HECK, ROBERT C. H., Professor of Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1907
HEDRICK, E. R., Professor of Mathematics, University of Missouri, Columbia, Mo. 1910
HEDRICK, I. G., County Court House, Portland, Ore. 1903
HEDRICK, WM. A., Head of the Department of Physics of the High and Manual Training Schools, Central High School, Washington, D. C. 1918
HEILMAN, HERBERT W., Head, Civil Engineering Dept., Newark Technical School, Newark, N. J. 1922
HELMAN, M. P., 733 Pa. Avenue, Irwin, Pa. 1914
HENDERSON, W. E., Dean, College of Arts, Philosophy and Science, The Ohio State University, Columbus, Ohio. 1919
HENDRICK, T. K., Instructor in Engineering Mechanics, Yale University, New Haven, Conn. 1921

HENLINE, HENRY H., Assistant Professor of Electrical Engineering, Stanford University, Stanford University, Calif. 1919
HERING, RUDOLPH, Hydraulic and Sanitary Consulting Engineer, 1 West 70th St., New York City 1911
HERRICK, CARL A., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922
HERRMANN, RAYMOND R., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922
HERTY, C. H., President, Synthetic Organic Chemical Mfgs. Assoc. 1 Madison Ave., New York, N. Y. 1912
HEWERDINE, T. S., Consulting Civil and Hydraulic Engineer, Olivia, Minn. 1907
HEWITT, C. E., 353 State War & Navy Building, Washington, D. C. 1915
HEWLETT, VAN WYCH, JR., Woodmere, L. I., N. Y. 1920
HIBBARD, H. WADE, Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1896
HICKERSON, T. F., Professor of Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1914
HIGBEE, F. G., Professor and Head of the Department of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Ia. 1906
HIGBIE, H. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1908
HILL, ARTHUR ST. JOHN, Associate Professor of Electrical Engineering, University of Maine, Orono, Me. 1919
HILL, CLIFTON R., Assistant Professor of Civil Engineering, University of Nevada, Reno, Nev. 1918
HILL, J. E., Professor of Civil Engineering, Brown University, Providence, R. I. 1894
HILL, LESTER S., Associate Professor of Mathematics, University of Maine, Orono, Me. 1922
HILL, WM. W., Professor of Electrical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1912
HILLEBRAND, W. A., 345 Kellogg Ave., Palo Alto, Calif. 1910
HILLEGASS, H. H., Engineering Dept., Bell Telephone Co. of Penna., Philadelphia, Pa. 1916
HINSCH, VAN BUREN, Assistant Professor of Mathematics, Missouri School of Mines and Metallurgy, Rolla, Mo. 1919
HITCHCOCK, E. A., Dean of Engineering College, The Ohio State University, Columbus, O. 1921
HITCHCOCK, F. A., 5205 Wisconsin Ave., Chevy Chase, Md. 1913
HITCHCOCK, GEO. G., Professor of Physics, Pomona College, Claremont, Calif. 1911

HITCHCOCK, LEON W., Professor of Electrical Engineering, New Hampshire College, Durham, N. H. 1922

HITCHCOCK, W. A., Architect, University of Wyoming, Laramie, Wyo. 1915

HIXON, C. R., Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1910

HOAD, W. C., Professor of Sanitary and Municipal Engineering, University of Michigan, Ann Arbor, Mich. 1907

HOBBS, ALLAN W., Associate Professor of Applied Mathematics, University of North Caroline, Chapel Hill, N. C. 1910

HOCKEMA, FRANK C., Instructor, Purdue University, LaFayette, Ind. 1921

HODGKINS, H. L., President and Professor of Mathematics, George Washington University, Washington, D. C. 1908

HOEFER, E. G., Professor of Mechanical and Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1910

HOELSCHER, RANDOLPH P., Assistant Professor of General Engineering Drawing, University of Illinois, Urbana, Ill. 1912

HOERNING, CARLOS, Professor of Mechanical Engineering, Universidad de Chile, Santiago, Chile 1912

HOEXTER, S. J., University of Detroit, Detroit, Mich. 1914

HOFMANN, G. A., Professor of Mechanical Engineering, University of Dayton, Dayton, O. 1916

HOFMAN, H. O., Professor of Metallurgy, Massachusetts Institute of Technology, Cambridge, Mass. 1894

HOFFMAN, A. H., Research Specialist in Agricultural Engineering, University Farm, Davis, Calif. 1907

HOFFMAN, J. D., Head, Dept. of Practical Mechanics; Professor of Practical Mechanics; Director, Laboratories of Practical Mechanics, Purdue University, LaFayette, Ind. 1907

HOLDEN, C. A., Director, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1901

HOLDER, F. J., Professor of Mathematics, Mercer University, Macon, Ga. 1912

HOLLIS, I. N., President, Worcester Polytechnic Institute, Worcester, Mass. 1894

HOLLISTER, S. C., Light, Hollister & Ferguson, Inc., Civil and Industrial Engineers, 1200 Land Title Bldg., Philadelphia, Pa... 1916

HOLMAN, W. F., Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1912

HOLMES, FRED E., Assistant Professor of Mechanics and Hydraulics, The State University of Iowa, Iowa City, Ia. 1919

HOLTON, EDWIN L., Professor of Education and Dean of Summer School, Kansas State Agricultural College, Manhattan, Kans... 1919

HOOD, GEO. J., Professor of Engineering Drawing, University of Kansas, Lawrence, Kans. 1914
HOOD, O. P., 1831 Irving St., N. W., Washington, D. C. 1893
HOOK, IRA T., Assistant Professor of Strength of Materials, Yale University, New Haven, Conn. 1922
HOOPER, E. G., Assistant Professor of Civil Engineering, New York University, New York, N. Y. 1909
HOOVER, THEODORE J., Professor of Mining and Metallurgy, Stanford University, Stanford University, Calif. 1919
HOSKINS, L. M., Professor of Applied Mathematics, 1240 Waverly St., Palo Alto, Calif. 1893
HOSMER, GEO. L., Associate Professor of Geodesy, Massachusetts Institute of Technology, Cambridge, Mass. 1914
HOUGHTON, C. E., Professor of Mechanics, New York University, New York, N. Y. 1908
HOUSE, E. B., Professor of Civil and Irrigation Engineering, Colorado State Agricultural College, Ft. Collins, Colo. 1913
HOUSEHOLDER, FRED F., Professor of Physics, Municipal University of Akron, Akron, O. 1922
HOUSTON, HALE, Box 422, Lexington, Va. 1914
HOWARD, J. W., Associate Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907
HOWE, C. D., Partner, C. D. Howe & Co., Consulting Engineers, Port Arthur, Ontario, Canada 1912
HOWE, C. S., President of the Case School of Applied Science, Cleveland, O. 1902
HOWE, LEON B., Professor of Drawing, College of Applied Science, Syracuse University, Syracuse, N. Y. 1917
HOWELL, ALMONTE C., Instructor in English, University of North Carolina, Chapel Hill, N. C. 1922
HOWELL, R. S., Associate Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1919
HOWER, H. S., Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1914
HOXTON, L. G., Professor of Physics, University of Virginia, University, Va. 1915
HUGHES, H. J., Dean of the Engineering School, Professor of Civil Engineering, Harvard University, Cambridge, Mass 1907
HUME, ALFRED, Vice-Chancellor, Professor of Mathematics, University of Mississippi, University, Miss. 1894
HUMPHREY, H. K., Assistant Professor of Electrical Engineering, Rice Institute, Houston, Tex. 1918
HUMPHREYS, A. C., President, Stevens Institute of Technology, Hoboken, N. J. 1903

HUMPHREY, CARL T., Dean, School of Technology, Professor of Civil Engineering, Villanova College, Villanova, Pa. 1921

HUNT, ROBERT W., Senior Member of Robert Hunt & Co., 2200 Insurance Exchange, Chicago, Ill. 1913

HUNTER, J. A., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1904

HUNTINGTON, E. V., Professor of Mechanics, Harvard University, Cambridge, Mass. 1906

HUNTINGTON, W. C., Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914

HUSTEDT, HERMAN F., Instructor in Mechanic Arts, Tulane University, New Orleans, La. 1922

HYDE, A. L., Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. 1904

HYDE, E. P., Director of Research, National Lamp Works of General Electric Co., Nela Park, Cleveland, O. 1911

INGRAM, E. L., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. 1908

IVES, F. W., Professor of Agricultural Engineering, The Ohio State University, Columbus, O. 1910

IVES, H. C., Professor of Railroad Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1901

IYER, R. P., Supervisor, Public Works Department, Teruverambur P. O., Trechwofoltz District, Deccan, India 1910

JABLOW, CHARLES, Westinghouse E. & M. Co., 137 Avenue A, Westinghouse Plan, East Pittsburgh, Pa. 1910

JACKSON, DUGALD C., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1893

JACKSON, DUGALD C. JR., Instructor in Electrical Engineering, University of Missouri, Columbia, Mo. 1922

JACOBUS, D. S., Advisory Engineer, The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y. 1893

JACOBY, H. S., Professor of Bridge Engineering, Emeritus, Cornell University, 650 Highland Ave., Bethlehem, Pa. 1894

JAMES, J. H., Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

JAMES, W. G., Trans. Eng. Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1917

JAMESON, J. M., Vice President, Girard College, Philadelphia, Pa.. 1903

JASPER, T. McL., Special Research Assistant Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1920

JENKIN, ANTHONY, Assistant Professor of Mining Engineering, Case School of Applied Science, Cleveland, O. 1921

JENKINS, A. LEWIS, Professor of Mechanical Engineering, University of Cincinnati, Cincinnati, O. 1907
JENKINS, D. R., Professor of Electrical Engineering, University of North Dakota, University Station, Grand Forks, N. D. 1912
JEWETT, F. B., Vice President, Western Electric Co., Inc., 195 Broadway, New York, N. Y. 1914
JOHNDROE, S. G., Instructor in Mathematics, Wentworth Institute, Boston, Mass. 1921
JOHNSON, A. R., Associate Professor of Civil Engineering and Graphics, Rutgers College, New Brunswick, N. J. 1909
JOHNSON, C. A., Larimer, Pa. 1915
JOHNSON, E. A., Head of the Foundry Dept., Wentworth Institute, Boston, Mass. 1913
JOHNSON, EUGENE L., Assistant Professor of English, University of Missouri, Rolla, Mo. 1922
JOHNSON, F. ELLIS, Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1916
JOHNSON, J. S. A., Professor of Applied Mechanics and Experimental Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1921
JOHNSON, L. J., Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1898
JOHNSON, PHELPS, Care of Dominion Bridge Co., Montreal, Canada. 1910
JOHNSTON, C. T., Professor of Geodesy and Surveying, Custodian of the Bogardus Tract, and Director Camp Davis, University of Michigan, Ann Arbor, Mich. 1913
JOHNSTON, W. A., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907
JONES, C. R., Dean of the College of Engineering and Professor of Power Engineering, West Virginia University, Morgantown, W. Va. 1895
JONES, DAVID C., Associate Professor of Mathematics, A. & M. College of Texas, College Station, Tex. 1923
JONES, E. C., Assistant Professor of Shop Practice, Kansas State Agricultural College, Manhattan, Kans. 1917
JONES, F. E., Assistant Professor of Mechanic Arts, University of Kansas, Lawrence, Kans. 1915
JONES, F. R., 111 Broadway, N. Y. 1893
JONES, J. O., Assistant Professor of Hydraulics, University of Minnesota, Minneapolis, Minn. 1916
JONES, LAUDER W., Dean, School of Chemistry and Dean, College of Engineering and Architecture, University of Minnesota, Minneapolis, Minn. 1920

JONES, LEONARD R., Instructor, Massachusetts Institute of Technology, Cambridge Mass. 1922

JONES, SAMUEL M., Research Assistant, Massachusetts Institute of Technology, Cambridge, Mass. 1922

JORDAN, H. H., Professor of General Engineering Drawing and Assistant Dean, College of Engineering, University of Illinois, Urbana, Ill. 1915

JOURDAN, JOHN W., Assistant Professor of Irrigation Engineering, New Mexico College of A. & M. Arts, State College, N. Mex... 1919

JUDD, HORACE, Professor of Hydraulic Engineering, The Ohio State University, Columbus, O. 1907

JUNE, HENRY N., Professor of Design, Dept. of Architecture, A. & M. College of Texas, College Station, Tex. 1919

KANE, EDW. W., Instructor in Electrical Engineering and Drawing, Marquette University, Milwaukee, Wis. 1921

KARAPETOFF, VLADIMIR, Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1909

KARTAK, FRANZ A., Professor of Electrical Engineering, Marquette University, Milwaukee, Wis. 1922

KAVANAUGH, W. H., Professor of Experimental Engineering, University of Pennsylvania, Philadelphia, Pa. 1902

KAZDA, CHARLES B., Head Instructor Graduate Student Course, Central Station Institute, Commonwealth Edison Company; Instructor in Physics and Electrical Engineering, Junior College of Crane Technical High School, Chicago, Ill. 1918

KEGERREIS, ROY, Physicist, Curie Hospital, Mayo Clinic, Rochester, Minn. (Life Member) 1913

KELLER, A. R., 2456 Oahn Avenue, Honolulu, T. H. 1910

KELLER, GEORGE J., Assistant Professor of Steam Engineering, The State University of Iowa, Iowa City, Ia. 1919

KELLER, J. O., Industrial Engineering Department, The Pennsylvania State College, State College, Pa. 1916

KELLEY, HOWARD G., Consulting Advisor to New England and New York R. R. Committee, 5 Exchange St., Boston, Mass. 1910

KELLOGG, E. W., Research Laboratory, General Electric Co., Schenectady, N. Y. 1913

KENERSON, W. H., Professor of Mechanical Engineering, Chairman Division of Engineering, Brown University, Providence, R. I. 1903

KENISON, ERVIN, Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1912

KENNEDY, F. L., Associate Professor of Engineering Drawing, Harvard University, Cambridge, Mass. 1904

KENNELLY, A. E., Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1916
KENT, BENJAMIN C., Associate Professor of Mechanical Engineering, University of Maine, Orono, Me. 1922
KENT, J. M., Instructor in Steam and Electricity, Power Plant Engineer, Manual Training High School, Kansas City, Mo. 1903
KERCHNER, RUSSELL M., Instructor in Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1923
KERR, JOSEPH, Instructor in Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1923
KESNER, H. J., Associate Professor of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1921
KETCHUM, MILO S., Dean, College of Engineering, University of Illinois, Urbana, Ill. 1903
KIDD, J. W., Professor of Engineering, Texas State School of Mines and Metallurgy, Fort Bliss, Tex. 1908
KIEFER, EARL C., Assistant Professor of Mathematics, Iowa State College, Ames, Iowa 1921
KIEFER, P. J., Associate Professor of Mechanical and Marine Engineering, Post Graduate School, U. S. Naval Academy, Annapolis, Md. 1917
KIMBALL, D. S., Professor of Industrial Engineering, and Dean, College of Engineering, Cornell University, Ithaca, N. Y. 1915
KING, CARL, Wickwire Spencer Steel Corp., Palmer, Mass. 1912
KING, E. E., Professor of Railway Civil Engineering, University of Illinois, Urbana, Ill. 1908
KING, H. W., Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1913
KING, MORLAND, Professor of Electrical Engineering, LaFayette College, Easton, Pa. 1920
KING, R. S., Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1904
KINGMAN, EDWARD D., Instructor in Applied Mechanics, Wentworth Institute, Boston, Mass. 1923
KINGSBURY, ALBERT, 4320 Tackawanna Street, Philadelphia, Pa. 1893
KINNEY, EDWARD D., Associate Professor of Metallurgy, University of Kansas, Lawrence, Kans. 1922
KINSEY, A. S., Professor of Shop Practice, Stevens Institute of Technology, Hoboken, N. J. 1912
KINSLEY, CARL, Cosmos Club, Washington, D. C. 1903
KIRBY, R. S., Associate Professor of Engineering Drawing, Sheffield Scientific School, Yale University, New Haven, Conn. 1911

KIRCHNER, W. H., Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910
KIRK, RAYMOND E., Assistant Professor of Chemistry, University of Minnesota, Minneapolis, Minn. 1923
KIRKHAM, J. E., Professor of Structural Engineering, Iowa State College, Ames, Ia. 1915
KITTREDGE, RAYMOND B., Associate Professor of Railroad Engineering, State University of Iowa, Iowa City, Ia. 1921
KLEIN, A. W., Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1908
KLOEFFLER, ROYCE G., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919
KNAPP, E. R., Sales Engineer, 50 Church St., New York City 1912
KNAPP, W. A., Purdue University, LaFayette, Ind. 1920
KNIGHT, C. D., Professor of Experimental Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1907
KNIGHT, NATHANIEL H., Assistant Professor of Physics, Tufts College, Tufts College, Mass. 1920
KNIGHT, W. A., Professor of Mechanical Practice, The Ohio State University, Columbus, O. 1907
KNIPP, CHARLES T., Professor of Experimental Electricity, University of Illinois, Urbana, Ill. 1921
KNOETTGE, CARL H., 962 Pleasant St., Chicago, Ill. 1918
KNOWLES, MAHLON G., Instructor in Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1922
KNOWLES, MORRIS, Consulting Engineer, 318 Westinghouse Building, Pittsburgh, Pa. 1914
KOERBER, G. A., Professor of Electrical Engineering, Delaware College, Newark, Del. 1915
KOLYN, M. D., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1920
KOMMERS, JESSE B., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1923
KONDO, SENTARO, Civil Engineer, No. 27 Tatsuokacho Hongo, Tokoyo, Japan 1911
KOVARIK, ALOIS F., Associate Professor of Physics, Sheffield Scientific School, Yale University, New Haven, Conn. 1919
KOWALKE, OTTO L., Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1918
KRAPF, H. C., Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921
KREWSON, R. H., Teacher of Practical Arts, Frankford High School, Philadelphia, Pa. 1912

KUNZE, E. J., Professor and Head, Dept. of Industrial Engineering, The Pennsylvania State College, State College, Pa. 1907
KURTZ, E. B., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921
LAMBERT, B. J., Head, Dept. of Civil Engineering, State University of Iowa, Iowa City, Ia. 1907
LAMBERT, P. A., Professor of Mathematics, Lehigh University, Bethlehem, Pa. 1897
LAMBIE, J. S., Associate Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
LANDRETH, OLIN H., 140 Park Ave., Mt. Vernon, New York, N. Y. 1893
LANGE, PAULUS J. H., Instructor in English, Iowa State College, Ames, Iowa 1922
LANGILLE, H. B., Associate Professor of Machine Design and Mechanical Drawing, University of California, Berkeley, Cal. ... 1915
LANGFORD, ERNEST, Associate in Architectural Construction, University of Illinois, Urbana, Ill. 1920
LANGSDORF, A. S., Industrial Engineer, Crunden Martin Mfg. Co., 1205 Amherst Place, St. Louis, Mo. 1903
LANHAM, EDGAR T., Supt., Forge Laboratories, University of Illinoise, Urbana, Ill. 1922
LANIER, A. C., Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915
LAPHAM, J. R., Professor of Civil Engineering, George Washington University, Washington, D. C. 1912
LARKIN, F. V., Head, Department of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1912
LAROCHE, EDWIN B., Professor of Architecture, A. & M. College of Texas, College Station, Tex. 1923
LARSON, G. L., Professor of Steam and Gas Engineering, 27 Lathrop St., Madison, Wis. 1911
LAURSON, PHILIP G., Assistant Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1920
LAWRANCE, C. H., Associate Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1906
LAWRENCE, C. W., Professor of Civil Engineering, University of Southern California, Los Angeles, Cal. 1909
LAWRENCE, ERNEST F., Instructor in Electrical Engineering, Tufts College, Tufts College, (57) Mass. 1921
LAWRENCE, R. R., Professor of Electrical Machinery, Massachusetts Institute of Technology, Cambridge, Mass. 1907
LAWS, F. A., Professor of Electrical Measurements, Massachusetts Institute of Technology, Cambridge, Mass. 1909

LAWTON, E. E., Associate Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1910
LEAVITT, HAROLD W., Assistant Professor of Civil Engineering, University of Maine, Orono, Me. 1922
LECONTE, J. N., Professor of Engineering Mechanics, University of California, Berkeley, Calif. 1913
LEE, ALFRED O., Associate Professor of Modern Languages, University of Michigan, Ann Arbor, Mich. 1921
LEE, OSCAR C., Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1923
LEFAVOUR, HOWARD P., Lecturer and Instructor in Automotive Engineering, Northeastern College, Boston, Mass. 1922
LEFAVOUR, ROLAND W., Instructor in Civil Engineering, Tufts College, Tufts College, Mass. 1921
LEFEBVRE, OLIVIER O., Chief Engineer, Quebec Streams Commission, 247 Mount Royal West, Montreal, Canada 1919
LEIGHTON, ARTHUR W., Assistant Professor of Graphics, Tufts College, Tufts College, Mass. 1922
LELAND, O. M., Dean, College of Engineering and Architecture, and the School of Chemistry, University of Minnesota, Minneapolis, Minn. 1908
LENDALL, H. N., Associate Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1912
LENNING, CARROLL K., Assistant in Practical Mechanics, Purdue University, LaFayette, Ind. 1922
LEONARD, HEMAN BURR, Professor of Mathematics, University of Arizona, Tucson, Ariz. 1919
LEPAGE, CLIFFORD B., Assistant Secretary, The American Society of Mechanical Engineers, 29 West 39th St., New York City. 1908
LESTER, O. C., Professor of Physics, Dean of Graduate School, University of Colorado, Boulder, Colo. 1912
LETELLIER, L. S., Professor of Civil Engineering and Drawing, The Citadel, The Military College of South Carolina, Charleston, S. C. 1912
LEUTWILER, O. A., Professor of Mechanical Engineering Design, University of Illinois, Urbana, Ill. 1906
LEVENS, A. S., Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1923
LEWIS, J. F., Electrical and Railway Engineer, 505 Brinton St., Germantown, Philadelphia, Pa. (Life Member) 1913
LEWIS, ROBERT S., Professor of Mining and Milling, University of Utah, Salt Lake City, Utah 1922
LIGHT, J. J., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1917

LILLY, S. B., 30 Church St., New York City 1913
LINCOLN, P. M., Director, School of Electrical Engineering, Cornell University, Ithaca, N. Y. 1911
LINDELL, WILLIAM F., Instructor in Engineering, University of Delaware, Newark, Del. 1922
LINDBLAD, A. F., Assistant Professor of Naval Architecture, University of Michigan, Ann Arbor, Mich. 1921
LINDEMANN, C. A., Professor of Civil Engineering, Bucknell University, Lewisburg, Pa. 1905
LINDLEY, ROY W., Assistant in Foundry, Purdue University, LaFayette, Ind. 1922
LINVILLE, C. P., Metallurgical Engineer American Smelting & Refining Co., Perth Amboy, N. J. 1904
LITTLE, ARLINGTON P., Professor of Electrical Engineering, Colorado School of Mines, Golden, Colo. 1918
LITTLE, C. N., Dean of the College of Engineering and Professor of Civil Engineering, University of Idaho, Moscow, Idaho 1907
LITTLE, G. T., Instructor, Portland High School, Electrical Department, 10 Caldwell St., Woodfords, Maine 1916
LLOYD, S. J., Professor of Chemistry and Chemical Engineering, State University of Alabama, University, Ala. 1921
LOCKWOOD, E. H., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908
LONG, J. J., Chief Engineer Thompson & Black, Real Estate Exchange, Detroit, Mich. 1911
LORING, WARREN E., Instructor in Mathematics, University of Maine, Orono, Me. 1922
LORY, C. A., President, State Agricultural College of Colorado, Fort Collins, Colo. 1908
LOTT, S. H., Assistant Professor and Head of Mechanical Drawing Division of Dept. of Machine Design, Stevens Institute of Technology, Hoboken, N. J. 1921
LOURIA, MILTON R., Instructor, University of Maine, Orono, Me. 1922
LOVE, A. C., State Highway Dept., Austin, Texas 1900
LOVE, A. C., University of Maine, Orono, Me. 1922
LOVELL, ALFRED H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920
LOVETT, I. H., Assistant Professor of Electrical Engineering, University of Missouri, Rolla, Mo. 1921
LUBY, WM. A., Head of Dept. of Mathematics, Junior College of Kansas City, Kansas City, Mo. 1914
LUCKE, C. E., Professor of Mechanical Engineering and Head of Dept., Columbia University, New York, N. Y. 1906

LUDERITZ, JOAO, Engenheiro Chefo-Instituto Technico Professional, Porto Alegre, Brazil 1909
LUDY, L. V., Professor of Experimental Engineering, Purdue University, LaFayette, Ind. 1902
LUEBS, AUGUST A., Assistant Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1921
LUND, JACOB, Supt. Heat and Power Dept., Kansas State Agricultural College, Manhattan, Kans. 1910
LUNDGREN, LEONARD, Captain C. of E., Instructor, Dept. Civil Engineering, Camp Humphreys, Va. 1907
LUTHER, H. B., Assistant Professor Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1914
LYLE, WM. T., Professor of Civil Engineering, Washington and Lee University, Lexington, Va. 1914
LYMAN, RICHARD R., Civil and Consulting Engineer, 47 E. So. Temple St., Salt Lake City, Utah 1908
LYNCH, D. E., Intructor in Forging, Foreman, Blacksmith Shop, Kansas State Agricultural College, Manhattan, Kans. 1915
LYON, ALPHEUS C., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1922
LYTLE, CHAS. W., Director of Industrial Coördination, New York University, New York City 1922
MCADAMS, EDWARD E., Business Manager, City of Bryant, Tex.... 1918
MCALLISTER, A. S., Electrical Engineer, 445 W. 153 St., New York, N. Y. 1911
MCANLIS, CHAUNCEY R., Associate in Architectural Engineering, University of Illinois, Urbana, Ill. 1922
MCCAFFERY, R. S., Professor of Metallurgy, University of Wisconsin, Madison, Wis. 1911
MCCABE, FRANCIS T., Instructor in Rindge Technical School, Cambridge, Mass. 1921
MCCANDLISS, L. C., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
MCCANN, WM. R., Electrical Engineer, care of Stone & Webster, 147 Milk St., Boston, Mass. 1912
MCCAUSTLAND, E. J., Dean, School of Engineering, and Director Engineering Experiment Station, University of Missouri, Columbia, Mo. 1902
MCCLAIN, F. H., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921
MCCLELLAND, E. H., Technology Librarian, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1912
MCCLINTIC, H. H., Vice-President McClintic-Marshall Construction Co., Pittsburgh, Pa. 1910

McClintock, Wm. McK., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. 1922
McCormick, C. M., Assistant Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1917
McCormick, E. B., Mechanical Engineer, Office of Public Roads and Rural Engineering, U. S. Dept. of Agriculture, Washington, D. C. 1908
McCourt, Walter E., Dean, Schools of Engineering and Architecture, Professor of Geology, Washington University, St. Louis, Mo. 1922
McCullough, F. M., Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
McDaniel, Allen B., Educational Specialist, Advisory Board, General Staff, War Dept., 1317 New York Ave., N. W., Washington, D. C. 1907
McDiarmid, George Cox, 4200 Hirkuk St., Washington, D. C. 1919
McDonald, P. B., Assistant Professor of English, New York University, University Heights, New York, N. Y. 1917
McEachron, K. B., 52 Stratford Street, Pittsfeld, Mass. 1916
McGowan, John, Professor of Applied Mechanics, University of Toronto, Toronto, Ont., Canada 1914
McGrath, E. L., 1613 Grove St., Berkeley, Calif. 1916
McGrath, Frank P., Instructor in Advanced Mechanical Drawing, Purdue University, LaFayette, Ind. 1922
McGregor, Howard L., Assistant President, National Twist Drill & Tool Co., Detroit, Mich. 1921
McIntyre, Lewis W., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1919
McKee, Ralph H., Professor of Chemical Engineering, Columbia University, New York, N. Y. 1919
McKergow, C. M., Professor of Mechanical Engineering, McGill University, Montreal, Canada 1913
McKibben, F. P., Professor of Civil Engineering, Union College, Schenectady, N. Y. 1904
McKiel, Harold W., Professor of Engineering; Secretary, Engineering Faculty, Mount Allison University, Sackville, N. B., Canada 1922
McNair, F. W., President, Michigan College of Mines, Houghton, Mich. 1897
McNeilly, Robert H., Professor of Civil Engineering, Vanderbilt University, Nashville, Tenn. 1919
McNew, John T. L., Assistant Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923

McNown, W. C., Associate Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915
McRae, A. L., Rolla, Mo. 1907
McWherter, M. C., 501 East 1st Ave., Derry, Pa. 1921
Macalpine, John H., Consulting Engineer, 5537 Hampton St., Pittsburgh, Pa. 1921
Macarthur, J. R., Associate Professor of Modern Languages, California Institute of Technology, Pasadena, Calif. 1915
MacCracken, J. H., President, Lafayette College, Easton, Pa. 1913
MacCullough, Gleason H., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922
Macdonald, S. L., Head of the Department of Mathematics, Colorado State Agricultural College, Ft. Collins, Colo. 1914
Mack, Albert J., Assistant Professor of Mechanical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919
MacKavanagh, T. J., Professor of Electrical Engineering, Catholic University of America, Washington, D. C. 1916
MacKay, H. M., Professor of Civil Engineering, McGill University, Montreal, Quebec, Canada 1914
Mackenzie, C. J., Dean of Engineering, University of Saskatchewan, Saskatoon, Sask., Canada 1915
Mackenzie, Wm. R., Professor of English, Washington University, St. Louis, Mo. 1922
Maclin, Edward S., Professor of Industrial Education, West Virginia University, Morgantown, W. Va. 1922
MacNaughton, Edgar, Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1916
MacNaughton, Jas., Vice-President and General Manager, Calumet and Hecla Mines; Member Board of Control, Michigan College of Mines, Calumet, Mich. 1905
MacNutt, Barry, Professor of Physics, Lehigh University, Bethlehem, Pa. 1910
Macomber, G. S., 463 Auburn St., Buffalo, N. Y. 1904
Magnusson, C. E., Professor of Electrical Engineering, Dean, College of Engineering, University of Washington, Seattle, Wash. 1907
Magruder, Wm. T., Professor of Mechanical Engineering, The Ohio State University, Columbus, O. 1893
Main, C. T., Consulting and Constructing Engineer, 14 Herrick St., Winchester, Mass. 1911
Mall, Ivor O., Assistant Professor of Mechanical Engineering, Tulane University, New Orleans, La. 1922
Mallory, Francis, Professor of Physics, Virginia Military Institute, Lexington, Va. 1912

MANN, C. A., Chief of Division and Professor of Chemical Engineering, School of Chemistry, University of Minnesota, Minneapolis, Minn. 1917

MANN, C. L., Professor of Civil Engineering, North Carolina State College of Agriculture and Engineering, West Raleigh, N. C... 1917

MANN, C. R., Director, American Council on Education, 26 Jackson Place, Washington, D. C. 1914

MANN, HORACE T., Professor of Metallurgy, Montana State School of Mines, Butte, Mont. 1919

MARK, ROBERT M., R. F. D. No. 4, Westerville, Ohio 1919

MARKER, J. R., Chief Engineer, Ohio Paving Brick Mfgrs. Association, Columbus, O. 1913

MARKLE, E. W., Assistant Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923

MARKS, L. S., Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. 1909

MARQUIS, F. W., Professor of Steam Engineering, Ohio State University, Columbus, Ohio 1910

MARSDEN, RAYMOND R., Professor of Civil Engineering, Dartmouth College, Hanover, N. H. 1922

MARSHALL, WM., Professor and Head, Dept. of Mathematics, Purdue University, LaFayette, Ind. 1923

MARSTON, ANSON, Dean of the Division of Engineering and Director of the Engineering Experiment Station, Iowa State College, Ames, Ia. 1894

MARTEL, R. R., Assistant Professor of Civil Engineering, California Institute of Technology, Pasadena, Calif. 1915

MARTENIS, J. VAN S., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1908

MARTIN, EDWIN R., Assistant Professor of Electric Power Engineering, University of Minnesota, Minneapolis, Minn. 1920

MARTIN, T. C., Advisory Secretary, The National Electric Light Association, 29 West 39th St., New York, N. Y. 1909

MARTIN, W. H., Professor of Heat Engineering, Oregon Agricultural College, Corvallis, Ore. 1913

MARVIN, CLOYD H., President, University of Arizona, Tucson, Ariz. 1923

MARVIN, HENRY H., Professor of Physics, Brace Laboratory of Physics, University of Nebraska, Lincoln, Nebr. 1914

MARX, C. D., Professor of Civil Engineering, Leland Stanford Junior University, Stanford University, Calif. 1893

MATHEWSON, CHAMPION H., Professor of Metallurgy, Yale University, New Haven, Conn. 1921

MATTHEWS, THOMAS, Assistant Professor of Electrical Engineering, University of North Dakota, Grand Forks, N. D. 1922

MAURER, E. R., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1897

MAY, CHAS. C., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1912

MEAD, D. W., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1908

MEEKER, W. H., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1903

MEES, C. L., President Emeritus, Rose Polytechnic Institute, Terre Haute, Ind. 1894

MÉHELY, KÁLMÁN, Professor on the University for Economical Sciences in Budapest, Hungary. 1909

MEHRHOF, FLOYD E., Instructor in Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1923

MEIKLEJOHN, ROBERT, Assistant Professor of Engineering Drawing, Ohio State University, Columbus, O. 1909

MELLER, H. B., Dean, School of Mines, Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1915

MENDENHALL, T. C., 329 N. Chestnut St., Ravenna, O. (Honorary Member) 1895

MERRILL, J. F., Director of the Utah State School of Mines and Engineering; Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah 1907

MERRIMAN, MANSFIELD, 1071 Madison Ave., New York, N. Y. 1893

MESTON, CHAS. R., 17 West 44th St., New York City 1922

MICKEY, CLARK E., Chairman, Civil Engineering Dept., University of Nebraska, Lincoln, Nebr. 1912

MILES, EGBERT J., Assistant Professor of Mathematics, Yale University, New Haven, Conn. 1922

MILLAR, A. V., Assistant Dean, College of Engineering, Professor of Drawing and Descriptive Geometry, University of Wisconsin, Madison, Wis. 1914

MILLER, DAYTON C., Professor of Physics, Case School of Applied Science, Cleveland, O. 1907

MILLER, HUGH, Professor of Civil Engineering and Acting Dean of Engineering, George Washington University, Washington, D. C. 1909

MILLER, H. W., Professor of Mechanism and Engineering Drawing, University of Michigan, Ann Arbor, Mich. 1922

MILLER, JAMES S., Adjunct Professor of Experimental Engineering, University of Virginia, University, Va. 1921

MILLER, S. O., Consulting Engineer, Columbia University, New York, N. Y. ..... [illegible]

MILLS, JOHN, Educational Director, Engineering Dept., Western Electric Co. Inc., 463 West St., New York City 1921

MING, FREDERICK W., Instructor in Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1918

MINSHALL, ROBERT E., Associate Professor of Structural Engineering, The Pennsylvania State College, State College, Pa. 1921

MITCHELL, GROVER I., Assistant Professor of Trades and Industries, Iowa State College, Ames, Iowa 1918

MITCHELL, LOUIS, Dean and Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1913

MOFFETT, JOHN H., 10 Glencoe Place, Cincinnati, O. 1922

MONNINGER, OSCAR E., Instructor in Drawing, 2042 Alabama St., Indianapolis, Ind. 1922

MONROE, W. K., Chief Engineer, The Brown Hoisting Machinery Co., Cleveland, O. 1911

MOODY, L. F., Consulting Engineer, I. P. Morris Dept., Wm. Cramp & Sons Ship and Engine Building Co., Philadelphia, Pa. 1912

MOOMAW, DALTON, 202 Dean Bldg., South Bend, Ind. 1911

MOORE, G. R., Assistant Construction Engineer, New Jersey State Highway Dept., Manasquan, N. J. 1913

MOORE, H. F., Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1905

MOORE, STANLEY H., 5601 Admiral Boulevard, Seattle, Wash..... 1902

MORE, CHAS. C., Professor of Civil Engineering, and Head Civil Engineering Department, University of Washington, Seattle, Wash. 1901

MORECROFT, J. H., Associate Professor of Electrical Engineering, Columbia University, New York, N. Y. 1908

MORGAN, ARTHUR E., President, Dayton Morgan Engineering Co., Dayton; President, Antioch College, Yellow Springs, O. 1921

MORLEY, RAYMOND K., Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1922

MORRILL, J. B., Manager, Reed Reduction Co., Palo Alto, Calif. ... 1914

MORRIS, C. T., Professor of Structural Engineering, The Ohio State University, Columbus, O. 1907

MORRIS, J. J., Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1912

MORRISON, I. F., Professor of Applied Mechanics, University of Alberta, Edmonton South, Alta, Canada 1912

MORRISON, ROGER L., Secry.-Treas. and General Manager, Concrete Products Co., Birmingham, Ala. 1914

MORROW, L. W. W., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1917

MORSE, J. L., Professor of Mechanical Engineering, Colorado School of Mines, Golden, Colo. 1910
MORSS, EVERETT, 115 Commonwealth Ave., Boston, Mass. 1910
MOSER, CHAS., Assistant Professor of Mechanics of Materials and Hydraulics, Stanford University, Stanford University, Calif. 1918
MOSS, S. A., Mechanical Engineer, Thomson Laboratory, General Electric Co., Lynn, Mass. 1911
MOTT, W. E., Director College of Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1907
MOYER, J. A., Director, Division of University Extension, Massachusetts Department of Education, Boston, Mass. 1904
MUHLFELD, J. E., Sherbrooke Road, Scarsdale, N. Y. 1911
MUNRO, G. W., Professor of Thermodynamics, Purdue University, LaFayette, Ind. 1915
MUNRO, M. S., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1914
MUNROE, H. S., Emeritus Professor of Mining, Columbia University, Litchfield, Conn. 1893
MUNSON, THURMOND A., Associate Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923
MURDOCK, H. E., Agricultural Engineer, Head of Agricultural Engineering Department, University of Montana, Bozeman, Mont. 1910
MURPHY, R. K., Head of Science Dept., Sydney Teachers College, Sydney, Australia 1914
MURRAY, D. A., Professor of Applied Mathematics, McGill University, Montreal, Canada 1910
MURRIE, J. L., Consulting Engineer, 74 Broadway, New York, N. Y. 1915
MYERS, HOWARD D., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1922
NAGLE, J. C., Nagle, Witt, Rollins, Engineering Co., Court House, Dallas, Tex. 1897
NAGLER, F. A., Associate Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. 1921
NASH, C. A., Assistant Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1913
NASH, PHILLIP C., Dean and Professor of Civil Engineering, Antioch College, Yellow Springs, O. 1921
NASSAU, J. J., Assistant Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1921
NAVARRO, J. J. M. L., Assistant Electrical Engineer, Philippine Engineering Co., 121 L. Guerrero, Ermite, Manila, P. I. ... 1922
NEEDY, JOHN A., Instructor in Mechanical Engineering, Purdue University, LaFayette, Ind. 1919
NEEL, WM. T., Engineer, Philadelphia Electric Co., Philadelphia, Pa. 1914

NEFF, F. H., Professor of Civil Engineering, Case School of Applied Science, Cleveland, O. 1895
NELSON, J. R., Professor of English in the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1914
NEUMANN, WARREN R., Assistant Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1922
NEWCOMBE, J. L., Professor of Civil Engineering, University of Virginia, University, Va. 1915
NEWKIRK, B. L., Research Laboratory, General Electric Co., Schenectady, N. Y. 1908
NEWMAN, C. M., Professor of English, Virginia Polytechnic Institute, Blacksburg, Va. 1917
NEWTON, GUY D., Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1913
NOLD, H. E., Professor of Mine Engineering, The Ohio State University, Columbus, O. 1916
NORRIS, EARLE B., Dean of Engineering, Montana State College, University of Montana, Bozeman, Mont. 1907
NORRIS, H. H., Engineering Editor, *Electric Railway Journal*, 10th Ave. at 36th St., New York, N. Y. 1900
NORMAN, CARL A., Professor of Machine Design, The Ohio State University, Columbus, O. 1918
NORTHCOTT, J. A., Assistant Professor of Mathematics, Columbia University, New York City 1915
NORTON, A. E., Associate Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. 1910
NORTON, C. L., Massachusetts Institute of Technology, Cambridge, Mass. 1908
NORWOOD, C. J., Head of Dept. of Mines and Metallurgy College of Engineering, University of Kentucky, Lexington, Ky. 1907
NOTTINGHAM, A. R., State College of Washington, Pullman, Wash. 1910
NUDD, WILLARD E., Instructor in Descriptive Geometry and Mechanical Drawing, Case School of Applied Science, Cleveland, O. 1923
NUGENT, P. C., Professor of Civil Engineering, University of Arizona, Tucson, Ariz. 1914
NYSWANDER, R. E., Professor of Physics and Director, School of Electrical Engineering, University of Denver, Denver, Colo. 1912
OCKERBLAD, A. M., Assistant Professor of Mechanics, University of Kansas, Lawrence, Kans. 1911
ODELL, A. T., Instructor in English, A. & M. College of Texas, College Station, Tex. 1923
OHLE, E. L., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1905

OLBRICH, E. R., Construction Engineer, North Carolina State Highway Commission, Raleigh, N. C. 1920

OLSEN, TINIUS, President, Tinius Olsen Testing Machine Co., 500 N. 12th St., Philadelphia, Pa. 1907

OLSON, O. A., Assistant Professor of Mechanical Engineering, Iowa State College, (706 Wilson Ave.,) Ames, Ia. 1915

ORBECK, MARTIN J., Assistant Professor of Descriptive Geometry and Drawing, College of Engineering, University of Michigan, Ann Arbor, Mich. 1920

O'ROURKE, CHAS. E., Instructor in Bridge Engineering, Cornell University, Ithaca, N. Y. 1922

ORTH, H. D., Associate Professor of Mechanical Drawing, University of Wisconsin, Madison, Wis. 1910

OSBORNE, L. A., Vice-President, Westinghouse Electric & Mfg. Co., 165 Broadway, New York, N. Y. 1911

O'SHAUGHNESSY, LOUIS, Professor of Applied Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. 1912

OSTRANDER, J. E., Professor of Mathematics and Civil Engineering, Massachusetts Agricultural College, Amherst, Mass. 1894

OVERHOLT, HARLEY G., Instructor in Mathematics, St. Thomas College, St. Paul Minn. 1922

OWENS, R. B., Secretary of The Franklin Institute, Philadelphia, Pa. 1894

PAGE, HUBBARD F., Assistant Professor of English, A. & M. College of Texas, College Station, Tex. 1923

PAINE, ELLERY B., Professor of Electrical Engineering, Head of the Department, University of Illinois, Urbana, Ill. 1911

PAINE, FRANK D., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

PALMER, C. I., Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. 1922

PALSGROVE, GRANT K., Professor of Hydraulic Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1918

PARCEL, J. I., Professor of Structural Engineering, University of Minnesota, Minneapolis, Minn. 1910

PARK, C. F., Professor of Mechanism, Director of the Mechanical Laboratories, Director of Lowell Institute School for Industrial Foremen, Massachusetts Institute of Technology, Cambridge, Mass. 1903

PARK, C. W., Professor of English, College of Engineering and Commerce, University of Cincinnati, Cincinnati, O. 1915

PARKER, GEORGE S., Assistant Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1922

PARKER, J. C., Electrical Engineer, Brooklyn Edison Co., Brooklyn, N. Y. 1916

PARKIN, J. H., Assistant Professor of Design, University of Toronto, Toronto, Ontario, Canada 1915

PARKINSON, HAROLD W., Instructor in Railway Mechanical Engineering, University of Illinois, Urbana, Ill. 1923

PARKS, C. W., Rear Admiral, United States Navy, Retired, 1829 Mintwood Place, Washington, D. C. 1911

PARMER, J. F., Instructor in Civil Engineering, Purdue University, LaFayette, Ind. 1921

PARSONS, F. M., Professor of Engineering, Whittier College, Whittier, Calif. 1919

PATTEN, W. E., Professor of Civil Engineering, Tangshan Engineering College, Tangshan, North China 1915

PATTERSON, A. H., Professor of Physics and Dean, School of Applied Science, University of North Carolina, Chapel Hill, N. C. 1919

PATTERSON, GEORGE W., Professor of Engineering Mechanics and Assistant Dean, College of Engineering, University of Michigan, Ann Arbor, Mich. 1921

PATTERSON, L. L., Professor of Electrical Engineering, Supt. of Electrical Service, Mississippi A. & M. College, Agricultural College, Miss. 1915

PAUL, C. E., Professor of Mechanics, Armour Institute of Technology, Chicago, Ill. 1907

PAULL, NORMAN M., Professor of Drawing, University of North Carolina, Chapel Hill, N. C. 1920

PAWLOWSKI, FELIX W., Professor of Aeronautical Engineering, University of Michigan, Ann Arbor, Mich. 1921

PEACOCK, FRANK E., Instructor, University of Minnesota, Minneapolis, Minn. 1922

PEARCE, C. E., Assistant Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1917

PEARSALL, PLATT A., Instructor in Chemistry, University of Maine, Orono, Me. 1922

PEARSON, R. A., President, Iowa State College, Ames, Ia. 1914

PEGRAM, GEORGE B., Dean, School of Mines, Engineering and Chemistry, Professor of Physics, Columbia University, New York, N. Y. 1918

PEHRSON, E. W., Associate Professor of Mathematics, University of Utah, Salt Lake City, Utah 1915

PENCE, W. D., Consulting Engineer, Room 1318, No. 8, So. Dearborn St., Chicago, Ill. 1895

PENDER, HAROLD, Professor-in-charge, Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. 1909
PENN, J. C., Assistant to the Dean and Examiner, Armour Institute of Technology, Chicago, Ill. 1915
PERRY, C. F., Supervisor of Manual and Industrial Training, Milwaukee Public Schools, Milwaukee, Wis. 1907
PERRY, JOHN E., Assistant Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1922
PERRY, W. G., Associate Professor of English, Georgia School of Technology, Atlanta, Ga. 1919
PERRY, WILLIAM S., Assistant Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. 1918
PERSON, F. G., Professor of Physics, Head, Dept. of Physics and Electrical Engineering, State Agricultural College, Fort Collins, Colo. 1918
PERTSCH, JOHN G. JR., Assistant Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1923
PETERSON, JOHN C., Associate Professor of Education, Kansas State Agricultural College, Manhattan, Kans. 1921
PETERSON, JOSEPH A., Professor of Mechanical Engineering, A. & M. College of Texas, College Station, Tex. 1923
PETTEE, C. H., Dean, New Hampshire College, Durham, N. H. 1898
PFEIF, G. H., Director of Industrial Relations, General Electric Co., Schenectady, N. Y. 1918
PHALEN, HAROLD R., Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. 1914
PHELON, J. O., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1902
PHILBRICK, H. S., Professor of Mechanical Engineering, Northwestern University, Evanston, Ill. 1913
PHILLIPS, E. B., Instructor in Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1919
PHILLIPS, HUBERT, Instructor in Economics, Case School of Applied Science, Cleveland, O. 1922
PHILLIPS, J. D., Acting Business Manager, University of Wisconsin, Madison, Wis. 1899
PIERPORT, ARTHUR DE, Head, Dept. of Romance Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
PINNEY, J. C., Dean, College of Applied Science and Engineering, Marquette Unversity, Milwaukee, Wis. 1919
PIPER, FRED. F., Professor of Physics, Clarkson College of Technology, Potsdam, N. Y. 1915
PLANK, WILLIAM B., Head, Dept. of Mining Engineering, Lafayette College, Easton, Pa. 1921

PLANT, L. C., Head of the Department of Mathematics, Michigan Agricultural College, East Lansing, Mich. 1913
PLUMMER, H. C., Instructor, Dept. of Mechanics, Case School of Applied Science, Cleveland, O. 1921
POND, FRANCIS J., Professor of Chemistry and Director of Chemical Laboratory, Stevens Institute of Technology, Hoboken, N. J.. 1912
POORMAN, A. P., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907
PORTER, DAVID B., Assistant Professor of Industrial Engineering, New York University, New York City 1923
PORTER, DWIGHT, 149 Hawthorne St., Malden, Mass. 1893
PORTER, F. M., Assistant Professor of Engineering Drawing, University of Illinois, Urbana, Ill. 1912
PORTER, J. B., Professor of Mining Engineering, McGill University, Montreal, Quebec, Canada 1904
PORTER, J. F., President, Kansas City Power & Light Co., Kansas City, Mo. 1912
PORTER, J. MADISON, Consulting Engineer, Easton, Pa. 1893
PORTER, R. A., Professor of Physics, Syracuse University, Syracuse, N. Y. 1908
PORTER, R. H., N. J. Zinc Co., Palmerton, Pa. 1915
POTTER, A. A., Dean, Schools of Engineering, Purdue University, LaFayette, Ind. 1908
POTTER, JOHN C., 257 Maple Ave., Oak Park, Ill. 1913
POTTS, CLYDE, Civil and Sanitary Engineer, 30 Church St., New York City 1922
POUND, J. H., Assistant Professor of Mechanical Engineering, Rice Institute, Houston, Tex. 1916
POWELL, RALPH W., Head, Dept. of Applied Mathematics, College of Yale in China, Changsha, Hunan, China 1922
POWER, RALPH L., Associate Professor and Head of Management Courses, University of Southern California, Pasadena, Calif. .. 1923
POWERS, W. P., Assistant Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
PRENTICE, D. B., Head of Mechanical Engineering Department, Lafayette College, Easton, Pa. 1912
PRESS, ABRAHAM, Assistant Professor of Electrical Engineering, University of California, Berkeley, Calif. 1916
PRICE, CHAS. B., Instructor in Mathematics and Drawing, Boys Trade School; Assistant Supervisor of Evening Trade School, Worcester Trade School, Worcester, Mass. 1914
PRIESTER, GEORGE C., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1920

PRIME, A. C., Consulting Engineer, 2212 Locust St., Philadelphia, Pa. (Life Member) 1910

PRINE, CHARLES W., Assistant Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1918

PRITCHARD, S. R., Dean of Engineering and Professor of Electrical Engineering, Virginia Polytechnic Institute, Blacksburg, Va... 1914

PROBERT, F. H., Dean, College of Mining, Professor of Mining, University of California, Berkeley, Calif. 1917

PROVINE, LORING H., Professor of Architectural Engineering, in charge of Dept. of Architecture, University of Illinois, Urbana, Ill. 1920

PRYOR, F. L., Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1908

PUFFER, LOUIS B., Assistant Professor of Civil Engineering, University of Vermont, Burlington, Vt. 1922

PUGH, EMERSON, Instructor in Electrical Engineering, Purdue University, LaFayette, Ind. 1921

PULLEN, M. W., Associate in Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1909

PURYEAR, CHARLES, Dean and Professor of Mathematics, Texas A. and M. College, College Station, Texas 1901

QUIGLEY, EDWARD P., Instructor in Forge and Heat Treatment, University of Minnesota, Minneapolis, Minn. 1922

RABER, B. F., Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1915

RADEBAUGH, GUSTAV H., Associate in Factory Management and Machine Shop Practice, Assistant Manager, Shop Laboratories, University of Illinois, Urbana, Ill. 1914

RANDALL, HARRISON M., Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921

RANDALL, J. A., President, Mechanics Institute, Rochester, N. Y. 1911

RAPPEL, U. J., Professor of Electrical Engineering, University of Dayton, Dayton, O. 1919

RATH, EDWIN R., Assistant Professor of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1919

RAYMOND, F. N., Professor of English, University of Kansas, Lawrence, Kans. 1910

RAYMOND, H. M., President, Armour Institute of Technology, Chicago, Ill. 1903

RAYMOND, ROBERT M., Professor of Mining, New York University, New York City 1923

RAYMOND, W. G., Dean of the College of Applied Science and Professor of Engineering, State University of Iowa, Iowa City, Ia. 1893

RAYMOND, WILLIAM R., Professor of English, Chairman, Group of English Teachers, Iowa State College, Ames, Ia. 1922
RAYNER, WM. H., Assistant Professor of Surveying, University of Illinois, Urbana, Ill. 1913
REBER, LOUIS E., Dean, University Extension Division, University of Wisconsin, Madison, Wis. 1893
REED, K. W., 3835 E. Elsmere Avenue, Norwood Station, Cincinnati, O. 1915
REED, PERCY L., Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1914
REID, CLARENCE E., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1907
REMICK, B. L., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915
REW, IRWIN, Trustee of Northwestern University, 217 Dempster St., Evanston, Ill. 1913
REYBOLD, EUGENE, Major, Coast Artillery Corps, Constructing Quartermaster, Fort Monroe, Va. 1919
REYNOLDS, JAMES A., Instructor in Electrical Engineering, Tufts College, Tufts College, Mass. 1922
REYNOLDS, JOSEPH B., Associate Professor of Mathematics and Astronomy, Lehigh University, Bethlehem, Pa. 1920
RICE, HARRIS, Assistant Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1919
RICE, H. A., Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915
RICE, LEPINE H., Instructor in Mathematics, Massachuestts Institute of Technology, Cambridge, Mass. 1918
RICH, DANIEL L., Assistant Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921
RICHARDS, CHARLES RUSS, President, Lehigh University, Bethlehem, Pa. 1895
RICHARDS, CHAS. RUSSELL, Director, Cooper Union, New York, N. Y. 1904
RICHARDS, WM. H., Instructor in Manual Training and Pattern Making, University of Minnesota, Minneapolis, Minn. 1910
RICHARDSON, G. R., 42 Webster St., Allston, Mass. 1912
RICHARDSON, M. R., Durham, N. C. 1910
RICHEY, J. J., Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1910
RICHTER, A. W., President, Price Mfg. Co., Yakima, Wash. 1894
RICKER, CLAIRE W., Assistant Professor of Electrical Engineering Massachusetts Institute of Technology, Cambridge, Mass. 1921

RICKER, N. C., Emeritus Professor of Architecture, University of Illinois, Urbana, Ill. 1894

RIESENBERGER, ADAM, Registrar and Treasurer, Stevens Institute of Technology, Hoboken, N. J. 1908

RIETZ, HENRY LEWIS, Professor and Head of Department of Mathematics, The State University of Iowa, Iowa City, Ia. 1919

RIGGS, H. E., Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913

RIGGS, N. C., Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

RILLIET, CHARLES E., Care of Washburne Continuation School, 2311 Commonwealth Ave., Chicago, Ill. 1919

RISLEY, W. J., Professor of Mathematics, Colorado School of Mines, Golden, Colo. 1910

RITTENHOUSE, L. H., Professor of Engineering, Haverford College, Haverford, Pa. 1906

ROARK, RAYMOND J., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1919

ROBB, WM. L., Professor of Electrical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

ROBBINS, A. G., Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1894

ROBERT, JAMES M., Professor of Machine Design, Tulane University, New Orleans, La. 1922

ROBERTS, EMERSON B., Educational Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

ROBERTS, MILNOR, Dean of the College of Mines, and Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

ROBERTSON, BURTON J., Assistant Director, Experiment Engineering Laboratory, Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1922

ROBERTSON, JOHN E., County Road Engineer of Shelby County, Shelbyville, Ky. 1914

ROBINSON, EDW., Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1899

ROBINSON, M. B., Director of Engineering, Evansville College, Evansville, Ind. 1915

ROCKWELL, EDWARD H., Professor of Civil Engineering and Dean of Engineering, Rutgers College, New Brunswick, N. J. 1907

ROCKWELL, ROBERT L., Consulting Engineer, Suite 955-6-7 Empire Building, Seattle, Wash. 1915

RODHOUSE, T. J., Professor of Hydraulic Engineering, University of Missouri, Columbia, Mo. 1904

RODMAN, W. S., Professor of Electrical Engineering, University of Virginia, University, Va. 1915
ROE, J. W., Professor of Industrial Engineering, New York University, New York City 1908
ROESCH, DANIEL, Associate Professor of Gas Engineering, Armour Institute of Technology, Chicago, Ill. 1922
ROGERS, C. E., Professor of Civil Engineering, Trinity College, Hartford, Conn. 1917
ROGERS, H. S., Professor of Hydraulic Engineering, Oregon State Agricultural College, Corvallis, Ore. 1922
ROHRER, A. L., Electrical Superintendent, Schenectady Works, General Electric Co., Schenectady, N. Y. 1911
ROLLINS, E. B., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1912
RONDINELLA, L. F., Head of Department of Drawing and Design, West Philadelphia High School for Boys, Philadelphia, Pa..... 1903
ROOD, JAS. T., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1914
ROOT, R. E., Professor of Mathematics, Postgraduate School, U. S. Naval Academy, Annapolis, Md. 1914
RORTY, M. C., Assistant Vice-President, American Telephone and Telegraph Company, 195 Broadway, New York, N. Y. 1912
ROSEBRUGH, T. R., Professor of Electrical Engineering, University of Toronto, Toronto Ontario, Canada. 1896
ROSING, ANTON S., Assistant Manager, Advertising and Publications, Portland Cement Association, 2210 Morse Ave., Chicago, Ill. 1911
ROWELL, L. D., Associate Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910
ROWLEY, F. B., Professor of Mechanical Engineering; Director, Experimental Engineering Laboratories, University of Minnesota, Minneapolis, Minn. 1910
RUBENKOENIG, HARRY, Associate Professor of Railway Mechanical Engineering, Purdue University, LaFayette, Ind. 1920
RUBEY, H. K., Associate Professor of Civil Engineering, University of Washington, Seattle, Wash. 1917
RUNNING, THEODORE R., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1918
RUSH, HARRY S., Assistant Professor of Mechanical Engineering, North Dakota Agricultural College, Fargo, N. D. 1919
RUSSELL, FRANK A., Professor of Railway Engineering, University of Kansas, Lawrence, Kans. 1922
RUSSELL, W. B., Director, Franklin Union, Boston, Mass. 1903

RYAN, H. J., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1901

RYAN, W. T., Associate Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1911

SADLER, H. C., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1907

SANDERS, ISAAC C., Assistant Professor of Physics, A. & M. College of Texas, College Station, Tex. 1923

SANDERS, WILLIAM B., Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1922

SANDERS, W. H., Assistant Professor and Acting Head of Farm Engineering, Kansas State Agricultural College, Manhattan, Kans. 1915

SARASON, SAMUEL D., Associate Professor of Civil Engineering, L. C. Smith College of Applied Science, Syracuse University, N. Y. 1918

SAUERS, JOHN A., 1018 4th Street, W. LaFayette, Ind. 1921

SAVANT, D. P., Care of C. Packing Co., Clinton, Ind. 1917

SAVILLE, THORNDIKE, Associate Professor of Hydraulic and Sanitary Engineering, University of North Carolina; Hydraulic Engineer, N. C. Geological Survey, Chapel Hill, N. C. 1915

SAYRE, M. F., Assistant Professor of Applied Mechanics, Union College, Schenectady, N. Y. 1917

SCHEALER, S. R., Associate Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1911

SCHMIDT, EDWARD C., Professor of Railway Engineering, 101 Transportation Bldg., University of Illinois, Urbana, Ill. 1907

SCHNEIDER, HERMAN, Professor of Civil Engineering and Dean of the College of Engineering, University of Cincinnati, Cincinnati, O. 1903

SCHNEIDER, HYRUM, Assistant Professor of Geology, University of Utah, Salt Lake City, Utah 1922

SCHRODER, FREDERICK F., Instructor in Civil Engineering, University of Cincinnati, Cincinnati, O. 1919

SCHUERMAN, W. H., Dean of the School of Engineering and Professor of Applied Mechanics and Structural Engineering, Vanderbilt University, Nashville, Tenn. 1895

SCHWARZE, C. T., Associate Professor of Civil Engineering, New York University, University Heights, New York, N. Y. 1912

SCIPIO, L. A., Dean and Professor of Mechanical Engineering, Robert College, Constantinople, Turkey 1910

SCOFIELD, HERBERT H., Professor of Materials, Cornell University, Ithaca, N. Y. 1922

SCOTT, C. F., Professor of Electrical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1904
SCOTT, LUTHER C., Associate Professor of Industrial Education, Toledo University, Toledo, O. 1919
SCULLEN, A. J., Associate Professor of Civil Engineering, In charge of Dept. of Civil Engineering, Catholic University of America, Washington, D. C. 1916
SEARSON, J. W., Professor of English, University of Nebraska, Lincoln, Nebr. 1915
SEATON, R. A., Dean, Division of Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912
SEAVER, H. L., Associate Professor of English, Massachusetts Institute of Technology, Cambridge, Mass. 1908
SEAVEY, FRANK E., Professor of English, Tufts College, Tufts College, Mass. 1919
SECHRIST, GILBERT H., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1921
SEELY, F. B., Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1913
SEERY, FRANCIS J., Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1908
SELVIDGE, ROBERT W., Professor of Industrial Education, University of Missouri, Columbia, Mo. 1922
SETCHELL, HORACE E., Professor of Mechanical Engineering, University of Porto Rico, Mayaguez, P. R. 1922
SEWARD, H. L., Associate Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn.. 1910
SEXTON, F. H., President of the Nova Scotia Technical College, and Director of Technical Education for Nova Scotia, Halifax, Nova Scotia 1908
SEYFERT, S. S., Associate Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1908
SHAAD, G. C., Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1907
SHANE, ADOLPH, Professor and Head, Trades and Industries Dept., Iowa State College, Ames, Ia. 1907
SHANK, JACOB RALPH, Assistant Professor of Civil Engineering, The Ohio State University, Columbus, O. 1919
SHATTUCK, E. L., Professor of Applied Mechanics and Thermodynamics, Louisiana Industrial Institute, Ruston, La. 1914
SHATTUCK, H. B., Associate Professor of Railroad Engineering, Pennsylvania State College, State College, Pa. 1906
SHAW, EDWIN A., Assistant Professor of Education, Graduate School of Education, Harvard University, Cambridge, Mass. 1921

SHAW, H. B., Pine Bluff, N. C. 1907
SHIBATA, KEISAKU, Professor of Civil Engineering, Tokyo Imperial University, Tokyo, Japan 1922
SHEEHAN, THOMAS W., Instructor in English, Tufts College, Tufts College, Mass. 1919
SHELDON, S. R., Dean and Professor of Electrical Engineering, Chiao Tung University, Nanyang College, Shanghai, China 1914
SHEPARDSON, G. D., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1895
SHEPARDSON, J. E., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1917
SHEPPARD, H. S., Dept. of Development & Research, American Telephone & Telegraph Co., 195 Broadway, New York, N. Y..... 1914
SHERMAN, C. E., Professor of Civil Engineering, Ohio State University, Columbus, Ohio 1907
SHIPLEY, S. C., Professor of Mechanical Engineering, and Superintendent of Shops, University of Minnesota, Minneapolis, Min. 1908
SHOOP, C. F., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1906
SHORT, R. L., Principal of High Schools, 1313 Herbert St., St. Louis, Mo. 1902
SIBLEY, F. H., Dean, College of Engineering, University of Nevada, Reno, Nev. 1910
SILER, RODERICK W., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922
SILVEY, O. W., Professor of Physics, A. & M. College of Texas, College Station, Tex. 1917
SIMS, STUART, Professor and Head of Civil Engineering, School of Engineering, Oregon State Agricultural College, Corvallis, Ore. 1919
SJOGREN, OSCAR W., Professor of Agricultural Engineering, College of Agriculture, Lincoln, Nebr..... 1917
SKELTON, R. H., Assistant Professor of Mathematics and Surveying, Allegheny College, Meadville, Pa. 1914
SKILES, W. V., Professor of Mathematics, Georgia School of Technology, Atlanta, Ga. 1919
SLAYMAKER, P. K., Professor of Machine Design, University of Nebraska, Lincoln, Nebr. 1910
SLEESMAN, L. C., Professor of Chemical Engineering, Ohio Northern University, Ada, O. 1917
SLICHTER, W. I., Professor of Electrical Engineering, Columbia University, New York, N. Y. 1911
SLOCUM, R. H., Professor of Civil Engineering, North Dakota Agricultural College, Agricultural College, N. D. 1903

SLUSS, A. H., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915
SMITH, H. B., Professor of Electrical Engineering, and Director of Electrical Engineering Dept., Worcester Polytechnic Institute, Worcester, Mass. 1898
SMITH, HARRY E., 222 Buena Vista St., Redlands, Calif. 1895
SMITH, H. S. S., 205 Wallace St., Stroudsburg, Pa. 1894
SMITH, J. HAMMOND, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1910
SMITH, M. VAN G., Professor of Mechanical Engineering, University of Delaware, Newark, Del. 1922
SMITH, P. F., Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. 1908
SMITH, RALPH A., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922
SMITH, RICHARD R., Manager, College Department, The Macmillan Company, 66 Fifth Ave., New York, N. Y. 1914
SMITH, ROBT. FRANKLIN, Professor of Mathematics, A. & M. College of Texas, College Station, Tex. 1923
SMITH, THOMAS D., Box 364, Newark, Dela. 1920
SMULL, T. J., JR., Executive Secretary, Ohio Northern University, Ada, O. 1907
SMYTH, H. L., Professor of Mining and Metallurgy and Director of the Mining and Metallurgical Laboratories, Harvard University, Cambridge, Mass. 1907
SNADER, DAVID L., South Dakota State College, Brookings, S. D... 1918
SNAVELY, T. R., Associate Professor of Economics, University of Virginia, University, Va. 1916
SNIFFIN, EDWIN H., Manager, Power Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1923
SNOW, CHAS. H., Dean, College of Engineering and Professor of Civil Engineering, New York University, New York, N. Y... 1895
SNOW, JOHN E., Associate Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1921
SNOW, WALTER B., Publicity Engineer, 60 High St., Boston, Mass. 1899
SORENSEN, R. W., Professor of Electrical Engineering, California Institute of Technology, Pasadena, Calif. 1912
SPALDING, F. P., Professor of Civil Engineering, University of Missouri, Columbia, Mo. 1893
SPAULDING, FRANK E., Sterling Professor of School Administration, Yale University Graduate School, New Haven, Conn. 1922
SPEIRS, CHAS. E., Vice-President, D. Van Nostrand Company, Publishers, 8 Warren Street, New York, N. Y. 1914

SPENCER, F. A., Professor of Electrical Engineering in charge of Dept., Norwich University, Northfield, Vt. 1920
SPENGLER, HARRY T., Professor of Railroad Engineering, LaFayette College, Easton, Pa. 1920
SPERR, F. W., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich. 1896
SPERRY, C. S., Professor of Engineering Mathematics, University of Colorado, Boulder, Colo. 1914
SPINNEY, L. B., Professor of Physics, Iowa State College, Ames, Ia. 1899
SPOFFORD, C. M., Hayward Professor of Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1901
SPOONER, H. J., Late Director and Professor of Mechanical and Civil Engineering, Polytechnic School of Engineering, Regent St., W., London, England 1912
SPRAGUE, EMBERT H., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1918
SPRAGUE, F. J., President, Sprague Safety Control and Signal Corporation, 421 Canal St., New York, N. Y. 1911
SPRINGER, F. W., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1896
SPRINGER, G. P., Assistant District Engineer (Bridges) State Highway Dept., Ann Arbor, Mich. 1917
STANFORD, J. V., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1907
STANLEY, WM. E., Resident Engineer South Charleston Sewer Construction, Charleston, W. Va. 1915
STANSFIELD, ALFRED, Birks Professor of Metallurgy, McGill University, Montreal, Canada 1921
STANTON, CHAS. B., Associate Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1915
STANTON, WILLIAM L., Associate Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923
STARBUCK, ARWARD, Assistant Professor of English, Iowa State College, Ames, Ia. 1919
STARR, CHARLES J., Assistant Supt., Machine Laboratory, University of Illinois, Urbana, Ill. 1921
STAVELY, EARL B., Associate Professor of Electrical Engineering, The Pennsylvania State College, State College, Pa. 1920
STEELE, J. N., Instructor in Foundry Work, Dickinson High School, Jersey City, N. J. 1912
STEINBERG, SAMUEL S., Professor of Civil Engineering, University of Maryland, College Park, Md. 1920
STEINMAN, D. B., Consulting Engineer, 25 Church St., New York, N. Y. 1910

STELZNER, W. B., Professor of Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1914
STEPHENSON, S. A., JR., Associate Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1910
STEVENS, A. C., Transformer Sales Dept., General Electric Co., Pittsfield, Mass. 1912
STEVENS, F. H., Assistant Professor Engineering Mechanics, College of Engineering, University of Michigan, Ann Arbor, Mich. 1915
STEWARD, R. K., Professor of Drawing and Design, Michigan Agricultural College, East Lansing, Mich. 1910
STEWART, G. W., Professor of Physics, State University of Iowa, Iowa City, Ia. 1910
STEWART, L. B., Professor of Surveying and Geodesy, Faculty of Applied Science and Engineering, Toronto University, Toronto, Ontario, Canada 1897
STEWART, O. M., Professor of Physics, University of Missouri, Columbia, Mo. 1909
STILLWELL, L. B., Consulting Engineer, 143 Liberty Street, New York, N. Y. 1912
STIMPSON, EDWIN F., Assistant Professor of Physics, University of Kansas, Lawrence, Kans. 1922
STOCKER, GEORGE P., Professor of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1921
STOCKWELL, F. C., Associate Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
STOEK, H. H., Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1907
STONE, CHAS. W., Manager of Lighting Dept., General Electric Co., Schenectady, N. Y. 1911
STONE, E. A., Consulting Engineer, Windsor, Nova Scotia 1907
STONE, JULIUS F., Care of Seagrave Co., Columbus, O. 1913
STONE, OLIVER M., Instructor in Descriptive Geometry and Drawing, Case School of Applied Science, Cleveland, O. 1923
STOUT, O. V. P., President and General Manager, General Farming Corp., Lincoln, Nebr. 1894
STRAW, J. B., Assistant Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923
STRONG, ALBERT J., Acting Professor of Drawing and Mechanic Arts, University of Florida, Gainesville, Fla. 1913
STUART, M. C., Professor of Mechanical and Marine Engineering, U. S. Naval Post-Graduate School, Annapolis, Md. 1921
STYER, CHARLES A., Assistant Professor of Electrical Engineering, Post Graduate Dept., U. S. Naval Academy, Annapolis, Md... 1918

SULLIVAN, GEO. L., Dean, College of Engineering, University of Santa Clara, Santa Clara, Calif. 1912

SUMMEY, GEORGE JR., Professor of English, A. & M. College of Texas, College Station, Tex. 1919

SUTHERLAND, HALE, Assistant Professor of Structural Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1914

SUTTIE, R. H., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1912

SVENSEN, C. L., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1900

SWAIM, VERNE F., Head, Department of Physics, Bradley Polytechnic Institute, Peoria, Ill. 1919

SWAIN, G. F., Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1893

SWEETSER, E. O., Associate Professor of Civil Engineering, Washington University, St. Louis, Mo. 1910

SWEETSER, ROBERT C., Professor of Analytical Chemistry, Worcester Polytechnic Institute, Worcester, Mass. 1922

SWARTZEL, KARL D., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1922

SWEET, A. T., Instructor in Metallurgy and Ore Dressing, Michigan College of Mines, Houghton, Mich. 1922

SWEETSER, W. J., Professor of Mechanical Engineering, University of Maine, Orono, Me. 1910

SYPHERD, W. O., Professor of English, University of Delaware, Newark, Del. 1914

TAIT, RALPH S., Assistant Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1921

TALBOT, ARTHUR N., Professor of Municipal and Sanitary Engineering, and in charge of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1893

TALBOT, H. P., Professor of Inorganic Chemistry, Dean of Students, Massachusetts Institute of Techonolgy, Cambridge, Mass. 1902

TAPPAN, F. G., Director, School of Electrical Engineering, University of Oklahoma, Norman, Okla. 1921

TAYLOR, HERBERT F., Assistant Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922

TAYLOR, T. U., Professor of Civil Engineering and Dean of Engineering Department, University of Texas, Austin, Texas 1902

TAYLOR, WARD H., Instructor in Mathematics, University of Arkansas, Fayetteville, Ark. 1921

TAYLOR, W. C., Associate Professor of Civil Engineering, Union University, Schenectady, N. Y. 1913

TAYLOR, WM. E., Professor of Applied Mathematics and Head of Dept., College of Applied Science, Syracuse University, Syracuse, N. Y. 1913
TEAGUE, WILLIAM L., 1115 Rose Ave., Wilkinsburg, Pa. 1922
TEEPLE, PERRY M., Associate Professor of Civil Engineering, University of South Carolina, Columbia, S. C. 1922
TEMPLE, W. E. S., Consulting Engineer, Swarthmore, Pa. 1913
TERRELL, DANIEL V., Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917
THALER, J. A., 901 3rd Avenue, Bozeman, Mont. 1901
THOMAS, C. F., Associate Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1909
THOMAS, CHAS. W., Assistant Professor of Descriptive Geometry and Mechanical Drawing, Case School of Applied Science, Cleveland, O. 1912
THOMAS, EVAN, Professor of Mechanics and Mathematics, University of Vermont, Burlington, Vt. 1908
THOMAS, FRANKLIN, Professor of Civil Engineering, California Institute of Technology, Pasadena, Calif. 1914
THOMAS, GEO. B., Director of Training, Engineering Department, Western Electric Co., Inc., New York, N. Y. 1911
THOMAS, H. A., Professor of Hydraulics, Rose Polytechnic Institute, Terre Haute, Ind. 1913
THOMAS, R. G., Professor Emeritus of Mathematics and Engineering, The Citadel, The Military College of S. C.; Engineer in charge of Records, *Editor*, S. C. Highway Bulletin, Columbia, S. C. 1894
THOMAS, R. P., Assistant Professor of Physics and Engineering Drawing, Wittenberg College, Springfield, O. 1914
THOMAS, WILLIAM H., Professor of English, A. & M. College of Texas, College Station, Tex. 1923
THOMPSON, FRANK F., Professor of Electrical Engineering, Rutgers College, New Brunswick, N. J. 1909
THOMPSON, G. S., Consulting Civil Engineer, 693 2nd Ave., Troy, N. Y. 1907
THOMPSON, JAMES S., Secretary, McGraw-Hill Book Co., 370 7th Ave., New York, N. Y. 1911
THOMPSON, KARL O., Associate Professor of English, Case School of Applied Science, Cleveland, O. 1919
THOMSON, FRANCIS A., Dean, School of Mines, University of Idaho, Moscow, Ida. 1915
THOMSON, R. D., Industrial Engineer, 411 Broadway, East Lynn, Mass. 1922

THORKELSON, H. J., Business Manager, University of Wisconsin, Madison, Wis. 1909
THORNBURG, C. L., Professor of Mathematics and Astronomy, Lehigh University, Bethlehem, Pa. 1894
THORNTON, W. M., Professor of Applied Mathematics and Dean of the Department of Engineering, University of Virginia, University, Va. 1916
THOROUGHGOOD, R. W., 46 Delaware Ave., Newark, Del. 1913
THURSTONE, L. L., Bureau of Personnel Administration, 26 Jackson St., Washington, D. C. 1919
TILDEN, C. J., Strathcona Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1913
TILGHMAN, HARRISON, Major, Care of Col. Oswald Tilghman, Easton, Md. 1919
TIMBIE, W. H., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1908
TITSWORTH, A. A., Professor of Mathematics, Rutgers College and N. J. College for Women, New Brunswick, N. J. 1903
TODD, M. E., Instructor in Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1913
TOMPKINS, FREDERICK N., Instructor in Electrical Engineering, Brown University, Providence, R. I. 1922
TOMPKINS, V. D., Supt. of Electrical Shops, Robert College, Constantinople, Turkey 1915
TOPPING, A. N., Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910
TOWLE, W. M., Emeritus Professor of Industrial Engineering, Clarkson College of Technology, Enosburg Falls, Vt. 1895
TRACY, J. C., Professor of Civil Engineering, Yale University, New Haven, Conn. 1907
TRAILL, J. J., With Hydro Electric Power Comm., of Ontario, Toronto, Ont., Canada 1912
TRAUTMAN, WILLIAM DANIEL, Assistant Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1920
TRINKS, W., Professor and Head of Department of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa... 1917
TRUEBLOOD, RALPH B., Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1922
TUCKER, CARLTON E., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922
TUCKER, E. N., Instructor in Mathematics, Virginia Episcopal School, Lynchburg, Va. 1915
TUDBURY, CHESTER W., Secretary of Faculty and Registrar, Wentworth Institute, Boston, Mass. 1921

TURLEY, O. J., Consulting Geological Engineer, 945 Munsey Bldg., Washington, D. C. 1912

TURNBULL, W. D., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1917

TURNBULL, WILLIAM F., Instructor in Mechanical Engineering, New York University, New York City 1920

TURNEAURE, F. E., Dean of the College of Engineering, University of Wisconsin, Madison, Wis. 1894

TURNER, C. A. P., Engineer, 2675 Lake of Isles Blvd., Minneapolis, Minn. 1913

TURNER, D. L., Consulting Engineer, Transit Commission, 9 East 39th St., New York, N. Y. 1898

TURNER, W. P., Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1900

TUTHILL, JOHN K., Assistant Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. 1922

TYLER, H. G., Associate Professor of Mechanical Engineering, Director, Evening Engineering Division, New York University, University Heights, New York, N. Y. 1915

TYLER, H. W., Walker Professor and Head, Dept. of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1894

UNDERHILL, JAMES, Associate Professor of Mining, Colorado School of Mines, Golden, Colo. 1921

UNDERWOOD, P. H., Professor of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. 1922

UPSON, W. L., Professor of Electrical Engineering, Washington University, St. Louis, Mo. 1910

VALLAS, MINER H., Instructor in Electrical Engineering, Tulane University, New Orleans, La. 1922

VAN BUSKIRK, H. C., Professor of Mathematics, California Institute of Technology, Pasadena, Calif. 1911

VANDERBEEK, H. A., Principal, Wusih Technical School, Wusih, Kiangsu, China 1915

VAN HAGAN, L. F., Professor of Railway Engineering, University of Wisconsin, Madison, Wis. 1912

VANLEER, BLAKE R., Assistant Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1923

VAN NESS, L. G., Consulting Electrical Engineer, 1431 Union Trust Bldg., Cincinnati, O. 1907

VAN ORNUM, J. L., Professor of Civil Engineering, Washington University, St. Louis, Mo. 1896

VARNEY, E. A., Instructor in Applied Mechanics and Structural Design, Wentworth Institute, Boston, Mass. 1921

VAUGHN, F. A., Vice-President, School of Engineering of Milwaukee, Milwaukee, Wis. 1918

VAUGHAN, L. L., Professor of Mechanical Engineering, North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C. 1912

VEAL, C. B., Consulting Engineer, 250 West 54th St., New York City. 1910

VEAZEY, WILLIAM R., Associate Professor of Chemistry, Case School of Applied Science, Cleveland, O. 1922

VEDDER, H. K., Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

VEDDER, J. N., Professor of Thermodynamics, Union College, Schenectady, N. Y. 1910

VEZEY, EDWARD E., Acting Associate Professor of Physics, A. & M. College of Texas, College Station, Tex. 1923

VOLKMER, ALBERT W., Instructor in Drawing and Descriptive Geometry, State University of Iowa, Iowa City. Ia. 1921

VOSE, F. H., Professor of Mechanical Engineering, in charge of the department, Case School of Applied Science, Cleveland, O.. 1907

VOSKAMP, JOHN A., Instructor in Civil Engineering, New York University, University Heights, N. Y. 1918

VOSS, W. C., Head, Dept. of Architectural Construction, Wentworth Institute, Boston, Mass. 1921

VOTEY, J. W., Professor of Civil Engineering and Dean of the College of Engineering, University of Vermont, Burlington, Vt. 1902

WADDELL, J. A. L., Consulting Engineer, 35 Nassau St., Room 1503, New York, N. Y. 1893

WADSWORTH, F. L. O., Consulting and Advisory Engineer, Pittsburgh, Pa. 1911

WADSWORTH, J. E., Division Engineer, American Bridge Co., 22 Morsemere Place, Yonkers, N. Y. 1895

WAGNER, F. C., Vice President, Professor of Mechanical Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1911

WAGNER, SAMUEL T., Chief Engineer, The Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia, Pa. 1911

WAIT, J. C., Attorney and Counsellor-at-law, Engineering Jurisprudence, Woolworth Bldg., 233 Broadway, New York, N. Y. 1907

WAITE, E. B., Practicing Engineer, Westboro, Mass. 1914

WALDO, W. G., Consulting Engineer, 205 3rd St., S. E., Washington, D. C. 1917

WALES, R. L., Professor of Mechanical Engineering and Dean of Engineering Depts., Rhode Island State College, Kingston, R. I. 1914

WALKER, AMASA, Manager of Educational Dept., Longmans, Green & Co., 55 Fifth Ave., New York, N. Y. 1914

WALKER, CHAS. L., Professor of Sanitary Engineering, College of Engineering, Cornell University, Ithaca, N. Y. 1910

WALKER, E. D., Professor of Hydraulic and Sanitary Engineering, Pennsylvania State College, State College, Pa. 1895

WALKER, E. S., Assistant Professor of Mechanical Engineering, University of Florida, Gainesville, Fla. 1910

WALKER, HARRY B., Professor of Agricultural Engineering, Kansas State Agricultural College, Manhattan, Kans. 1921

WALKER, P. F., Dean of the School of Engineering, University of Kansas, Lawrence, Kans. 1907

WALLACE, S. S., Professor of English, Georgia School of Technology, Atlanta, Ga. 1919

WALLER, O. L., Vice-President, Dean, College of Science and Arts, Head of Dept. Civil Engineering, State College of Washington, Pullman, Wash. 1911

WALTERS, RAYMOND, Dean of Swarthmore College, Swarthmore, Pa. 1921

WALSH, MATTHEW, University of Notre Dame, Notre Dame, Ind. .. 1922

WARD, CLAYTON N., Assistant Professor of Hydraulic Engineering, University of Wisconsin, Madison, Wis. 1920

WARD, SAMUEL, Technical Instructor and Industrial Engineer, 2648 Canterbury Road, Cleveland Heights, O. 1917

WATERMAN, I. F., Instructor in Civil Engineering, Oregon Agricultural College, Corvallis, Ore. 1916

WATERS, E. O., Assistant Professor of Machine Design, Sheffield Scientific School, Yale University, New Haven, Conn. 1914

WATSON, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1910

WATTS, C. W., Professor of Mathematics, The Virginia Military Institute, Lexington, Va. 1911

WATTS, EARLE F., Instructor in Engineering Drawing, University of Missouri, Columbia, Mo. 1923

WEAVER, LEON H. A., 72A, Highwood Terrace, Weehawken, N. J. 1914

WEAVER, RUDOLPH, Head, Department of Architecture; Architect to the College, The State College of Washington, Pullman, Wash. 1919

WEBB, H. E., Head of the Department of Mathematics, Central Commercial and Manual Training High School, Newark, N. J.. 1912

WEBBER, W. PAUL, Professor of Mathematics 1921

WEBER, JOHN, Associate Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

WEBER, JOHN L., Assistant Professor of Hydraulics, Cornell University, Ithaca, N. Y. 1922

WEED, JOHN M., Instructor in English, The Ohio State University, Columbus, O. 1923

WEIDA, FRANK M., Instructor in Mathematics, State University of Iowa, Iowa City, Ia. 1921

WEILAND, W. F., Instructor in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921

WEINBACH, M. P., Associate Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915

WEISS, CAMILLO, Structural Engineer, Bridge and Fabrication Dept., Bethlehem Steel Co., 1213 Russell Ave., Bethlehem, Pa. 1917

WELCH, FREDERIC W., Assistant Professor of Civil Engineering, State College of Washington, Pullman, Wash. 1921

WELD, FRED F., Associate in Civil Engineering, University of Washington, Seattle, Wash. 1922

WELLS, EDGAR H., President; Professor of Geology and Mineralogy, New Mexico School of Mines, Socorro, N. M. 1923

WENDT, ROBERT E., Instructor in Foundry, Purdue University, La-Fayette, Ind. 1922

WENDT, W. B., Professor of Civil Engineering, South Dakota State School of Mines, Rapid City, S. D. 1908

WENK, MORRIS, Assistant Professor of Mechanical Engineering, Oregon State Agricultural College, Corvallis, Ore. 1921

WEST, FRANK LESLIE, Professor of Engineering, Mount Allison University, Sackville N. B., Canada 1923

WESTERGAARD, HARALD M., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1920

WESTON, EDW., President, The Weston Electrical Instrument Co., Waverly Park, Newark, N. J. 1911

WHAREN, GEORGE B., Professor of Mechanical Engineering, University of North Dakota, Grand Forks, N. D. 1922

WHARTON, JAMES R., Chairman, Dept. of Mechanical Engineering, University of Missouri, Columbia, Mo. 1919

WHEELER, L. P., Assistant Professor of Physics, Yale University, New Haven, Conn. 1908

WHEELER, NATHANIEL E., Professor of Physics, Colby College, Waterville, Me. 1921

WHIPPLE, G. C., Gordon McKay Professor of Sanitary Engineering, Harvard University, Cambridge, Mass. 1896

WHITE, ALBERT E., Professor of Metallurgical Engineering, and Director, Dept. of Engineering Research, University of Michigan, Ann Arbor, Mich. 1922

WHITE, A. E., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1910

WHITE, A. H., Professor of Chemical Engineering, University of Michigan, Ann Arbor, Mich. 1920

WHITE, CHAS. H. M., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

WHITE, J. M., Supervising Architect, Supt. of Business Operations, University of Illinois, Urbana, Ill. 1900

WHITEHEAD, J. B., Dean, Faculty of Engineering and Professor of Electrical Engineering, The Johns Hopkins University, Baltimore, Md. 1913

WHITEHEAD, L. W., Assistant Professor of Civil Engineering, The Pennsylvania State College, State College, Pa. 1918

WHITED, E. WILLIS, Instructor in Co-Operative Work and Industrial Engineering, University of Pittsburgh, Pittsburgh, Pa. 1923

WHITMORE, R. D., I Pembroke St., New Rochelle, N. Y. 1917

WHITTEMORE, JEANNE S., Professor of English, University of Porto Rico, Mayaguez, P. R. 1923

WICKENDEN, WM. E., Assistant Vice-President American T. and T. Co., 195 Broadway, New York, N. Y. 1912

WILCOX, HUGH B., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

WILEY, RALPH B., Professor of Sanitary Engineering, Purdue University, LaFayette, Ind. 1920

WILEY, W. O., Publisher of Scientific Books, Treasurer, John Wiley & Sons, Inc., 432 Fourth Ave., New York, N. Y. 1904

WILLARD, ARTHUR C., Professor, Heating and Ventilation, Head, Dept. Mechanical Engineering, University of Illinois, Urbana, Ill. 1922

WILLIAMS, C. C., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1909

WILLIAMS, J. P. J., Civil Engineering Dept., Cooper Union, Cooper Square, New York, N. Y. 1919

WILLIAMS, NEIL H., Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921

WILLIAMS, O. E., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1910

WILLIAMS, S. N., Professor Emeritus of Civil and Sanitary Engineering, Cornell College, 734 N. Fairoaks Ave., Oak Park, Ill. 1893

WILLIAMS, W. S., Professor of Topographical Engineering, University of Missouri, Columbia, Mo. 1913

WILLIAMSON, CHARLES O., Professor of Applied Mathematics, College of Wooster, Wooster, O. 1919
WILLIAMSON, C. S., Professor of Industrial Chemistry, Tulane University, New Orleans, La. 1922
WILLIS, A. J., Associate Professor of Structural Engineering, Purdue University, LaFayette, Ind. 1912
WILLISTON, ARTHUR L., Principal, Wentworth Institute, Boston, Mass. 1897
WILLMARTH, ELMER H., Assistant Professor of Engineering Problems, Iowa State College, Ames, Iowa 1922
WILLSON, F. G., Head of Dept. of Applied Electricity, Wentworth Institute, Boston, Mass. 1912
WILLSON, F. N., Professor of Graphics, Princeton University, Princeton, N. J. 1913
WILMORE, J. J., Dean, School of Engineering, and Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1894
WILMOT, SYDNEY, Assistant Professor of Civil Engineering, Brown University, Providence, R. I. 1919
WILSON, A. M., Professor of Electrical Engineering, University of Cincinnati, Cincinnati, O. 1907
WILSON, GEORGE BURR, Assistant in Chemistry, Purdue University, LaFayette, Ind. 1923
WILSON, GEO. S., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1912
WILSON, W. L., Professor of Railroad Engineering, Lehigh University, Bethlehem, Pa. 1909
WILSON, WILBUR M., Research Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1914
WING, FRANCIS H., Supervisor of Industrial Education, Buffalo Public Schools, Buffalo, N. Y. 1919
WING, S. R., Professor of Mechanical and Electrical Engineering, Pennsylvania College, Gettysburg, Pa. 1914
WINSLOW, A. E., Dean of Civil Engineering Dept., Norwich University, Northfield, Vt. 1914
WINSLOW, A. M., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1918
WINSOR, ARTHUR S., Assistant Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. 1921
WIREN, ALEXIS R., General Secretary, Russian Students Christian Association, 347 Madison Ave., New York City. 1921
WISLER, C. O., Associate Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1920

WITHAM, R. L., Electrical Engineer, Sperry Gyroscope Co., Manhattan Bridge Plaza, Brooklyn, N. Y. 1914
WITHEY, M. O., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1910
WITHROW, JAMES R., Professor of Chemistry, Ohio State University, Columbus, O. 1907
WITTIG, GUSTAV F., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1910
WOHLENBERG, W. J., Assistant Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1917
WOLF, HARRY J., 3 Glenwood Ave., Little Neck, L. I., N. Y. 1914
WOLFARD, N. ELLSWORTH, Assistant Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1921
WOLFE, B. LEE, Associate Professor of Mining Engineering, University of Kansas, Lawrence, Kans. 1919
WOLFE, W. S., Chief Engineer, Gabriel Steel Co., 2441 Bellevue Ave., Detroit, Mich. 1916
WOOD, A. J., Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1898
WOOD, E. H., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910
WOODMAN, J. E., Professor of Geology and Director of Geological Museum, New York University, University Heights, New York, N. Y. 1912
WOODROW, JAY W., Professor of Physics, Iowa State College, Ames, Ia. 1918
WOODS, HARLAND C., Professor of Civil Engineering, Robert College, Constantinople, Turkey; Care of Guaranty Trust Co. of New York, Trust Dept., 140 Broadway, New York, N. Y..... 1910
WOODWARD, R. S., Ex-President, Carnegie Institution of Washington, Washington, D. C. 1893
WOODWARD, S. M., Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. 1910
WOOSTER, HARVEY A., Professor of Economics, Tufts College, Tufts College, Mass. 1922
WOOSTER, L. F., Professor of Applied Electricity, Oregon Agricultural College, Corvallis, Ore. 1912
WORK, WILLIAM R., Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921
WRIGHT, A. S., Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1907
WRIGHT, C. A., Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio 1916

WRIGHT, EDWIN, H., Associate Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

WUNDERLEE, JAMES L., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

WYMAN, F. T., President, Packard Electric Co., Ltd., St. Catherines, Ont. 1912

YATES, CLARENCE C., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923

YOE, JOHN HOWE, Adjunct Professor of Chemistry, University of Virginia, University, Va. 1920

YOUNG, C. M., Professor Head of Mining Engineering, University of Kansas, Lawrence, Kans. 1907

YOUNG, C. R., Associate Professor of Structural Engineering, University of Toronto, Toronto, Ont. 1914

YOUNG, E. G. Mechanical Engineering, Nanyang University, Shanghai, China. 1922

YOUNG, G. A., Professor and Head of the Department of Mechanical Engineering, Director, Mechanical Engineering Laboratories, Purdue University, LaFayette, Ind. 1907

YOUNG, L. E., Manager, Steam Heating Utility, Union Electric Co., Room 805, St. Louis, Mo. 1910

ZELNER, OTTO SAMUEL, Assistant Professor of Surveying, University of Minnesota, Minneapolis, Minn. 1923

ZIWET, ALEXANDER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1897

ZOWSKI-ZWIERZCHOWSKI, S. J., Professor of Hydraulic Engineering, Warsaw Polytechnic School, Polytechnika Warszawska, Warsaw, Poland 1910

1558

ADDENDA.

April 1, 1923.

BAUMER, HERBERT, Professor of Architecture, Department of Engineering, The Ohio State University, Columbus, O. 1923

BECK, WILLIAM A., Professor of Physics, University of Dayton, Dayton, O. 1923

BLISS, HOWARD H., Director fo Vocational Education, Riverside Junior College, Riverside, Calif. 1923

BOWLER, EDMOND W., Assistant Professor of Mathematics, New Hampshire College, Durham, N. H. 1923

BOWMAN, JOHN G., Chancellor, University of Pittsburgh, Pittsburgh, Pa. 1923

BOYLE, ROBERT W., Professor of Physics and Dean of the Faculty of Applied Science, University of Alberta, Edmonton, Canada. 1923

BREATH, ALEXANDER, Assistant Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1923

BRITTAIN, MARION L., President, Georgia School of Technology, Atlanta, Ga. 1923

BROCK, S. W., Dean of the Faculty of Applied Science, The University of British Columbia, Vancouver, Canada. 1923

CUNNINGHAM, JOHN B., Professor of Metallurgy and Ore Dressing, Michigan College of Mines, Houghton, Mich. 1923

ESHLEMAN, S. KENDRICK JR. Engineering College, University of Florida, Gainesville, Fla. 1923

FIELD, WOOSTER B., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1923

FISHBURN, CYRUS C., Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1923

FRENCH, OWEN B., Professor of Surveying, George Washington University, Washington. D. C. 1923

GULICK, LEE N., Assistant Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1923

HAZARD, CLIFTON T., Assistant Professor of Mathematics, Purdue University LaFayette, Ind. 1923

HECK, NICHOLAS H., Hydrographic and Geodetic Engineer, Coast and Geodetic Survey, Washington, D. C. 1923

HEFFNER, ROY E., Assistant Professor of Electrical Engineering, John B. Stetson University, DeLand, Fla. 1923

HOWARD, PAUL F., Instructor in Mathematics, New Hampshire State College, Durham, N. H. 1923

MANSON, EDMUND S. JR. Associate Professor of Astronomy, The Ohio State University, Columbus, O. 1923

MOORE, EDWARD J., Assistant Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1923

MUDGE, STERLING W., Assistant Head, Industrial Mechanical Engineering Dept., Pratt Institute, New York City. 1923

PEIDELL, THOMAS G., Associate Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1923

PERKINS, DONALD L., Instructor in Shop Practice, University of Michigan, Ann Arbor, Mich. 1923

PERRY, LYNN Assistant Professor of Civil Engineering, Lafayette College, Easton, Pa. 1923

PLATT, JAMES H., Assistant Professor of Mechanical Engineering, George Washington University, Washington, D. C. 1923

PRIOR, JOHN A., Instructor in Mechanical Engineering, Lafayette College. Easton, Pa. 1923

RICHARDS, ALFRED E., Professor of English and Head, Dept. of English, New Hampshire College, Durham, N. H. 1923

SAUNDERS, EDWARD W., JR., Assistant Professor of Civil Engineering, University of Virginia, University, Va. 1923

SCHAD, BERNARD T., Professor of Civil Engineering, University of Dayton, Dayton, O. 1923

SHAW, HURBERT DEGROFFEUR, Assistant Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1923

SLOBIN, HERMAN L., Professor and Head of Department of Mathematics, New Hampshire College, Durham, N. H. 1923

SMITH, HARRY W., Professor and Head, Department of Economics, New Hampshire College, Durham, N. H. 1923

SOBEY, ALBERT, Director of Education, Industrial Mutual Association and Association of Executives' Clubs, Flint, Mich. 1923

STOLWORTHY, EDWARD H., Instructor in Mechanical Engineering, New Hampshire College, Durham, N. H. 1923

THAXTON, GUY W., Assistant Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1923

WASSALL, ALLEN DEXTER, Assistant Professor of Electrical Engineering, New Hampshire College, Durham, N. H. 1923

WEAVER, JAMES H., Assistant Professor of Mathematics, The Ohio State University, Columbus, O. 1923

WEIL, JOSEPH, Instructor in Physics and Electrical Engineering, University of Florida, Gainesville, Fla. 1923

WU, NG CHEE, Professor of Railroad Engineering, Tangshan University, Tangshan, North China. 1923

ZIMMER, ALBERT R., Assistant Professor of Electrical Engineering University of Toronto, Toronto, Ont., Canada. 1923

April 20, 1923.

BABCOCK, JOHN B., Assistant Professor of Railway Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1923

BRANDEBERRY, JOHN B., Associate Professor of Mathematics, University of Toledo, Toledo, O. 1923

CROTHERS, HAROLD M., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1923

DREW, WM. C., Instructor in Industrial Drawing, Joliet Township High School and Junior College, Joliet, Ill. 1923

KNOWLTON, ARCHER E., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1923

RIGHTS, EUGENE J., Professor of Civil Engineering, University of Porto Rico, Mayaguez, P. R. 1923

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WHITNEY, RICH D., Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1923

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Underhill, James, Colo. School of Mines.

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Cooper, F. L., Yale Univ.
Dudley, S. W., Sheffield Sci. School.
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Hook, Ira T., Yale Univ.
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Kovarik, Alois F., Sheffield Sci. School.
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Miles, Egbert J., Yale Univ.
Morrow, L. W. W., Yale Univ.
Scott, C. F., Sheffield Scientific School.
Seward, H. L., Sheffield Scientific School, Yale Univ.
Smith, P. F., Sheffield Sci. School.
Spaulding, F. E., Yale Univ.
Suttie, R. H., Yale Univ.
Tilden, C. J., Yale Univ.
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Waters, E. O., 1316 Yale Station.
Wheeler, L. P., Yale Univ.
Wittig, G. F., Yale Univ.
Wohlenberg, W. J., Yale Univ.

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Lindell, W. F., Univ. Del.
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Wilmington.—duPont, T. C.

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Hewitt, C. E., 1800 Virginia Ave.
Hodgkins, H. L., George Washington Univ.
Hood, O. P., 1831 Irving St., N. W.
Kinsley, Carl, Cosmos Club.
Lapham, J. R., 1829 G St., N. W.
McDaniel, Allen B., 4200 Keokuk St. W.
McCormick, E. B., Office of Public Roads, U. S. Dept. of Agric.
McDiarmid, G. C., 4200 Hirkuk St.
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Mann, C. R., 26 Jackson Place.
Miller, Hugh, Geo. Wash. Univ.
Parks, C. W., 1829 Mintwood Place.
Scullen, A. J., Catholic Univ. of America.
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Woods, H. C.
Woodward, R. S.
Wright, E. H.
Young, C. R.
Zeiner, O. S.

ELECTRICAL ENGINEERING

Adams, Comfort A.
Adams, F. J.
Anderson, Wm.
Anderson, S. W.
Arnold, Bion J.
Austin, F. E.
Bailey, Benj. F.
Bailey, John B.
Ballard, W. C. Jr.
Bangratz, E. G.
Barrows, W. E., Jr.
Bartholomew, H. C.
Bauer, W. C.
Beach, Robin.
Beaver, J. L.
Bennett, Edw.
Berg, E. J.
Bibber, H. W.
Blakeslee, D. W.
Blalock, Grover C.
Blume, L. F.
Bogard, Frank.
Bozell, H. V.
Brackett, B. B.
Brenneman, J. L.
Brooks, Morgan.
Brown, Carrol G.
Brown, H. A.
Brown, R. A.
Browne, Wm. Hand.
Bryant, J. M.
Buchanan, R. O.
Buck, A. M.
Burkhart, P. H.
Caldwell, F. C.
Cannon, J. H.
Carpenter, H. D.
Catlin, W. G.
Chesney, C. C.
Clark, J. C.
Clifford, H. E.
Cloke, Paul
Cook, A. L.
Coover, M. S.
Corbett, L. J.
Creager, P. S.
Creamer, W. J. Jr.
Creighton, E. E. F.
Curtner, D. L.
Daggett, P. H.
Dargan, F. T.
Davidson, Ward F.
Dawes, C. L.
Dearborn, R. H.
Dickinson, L. P.
Dillingham, H. C.
Dillon, T. H.
Doggett, L. A.
Douglas, J. F. H.
Downing, R. E.
Duffey, C. F.
DuVall, W. Clinton
Dwight, H. B.
Dyche, H. E.
Edison, O. E.
Eldred, Calvin P.
Emrick, Paul S.
Esty, William.
Ewing, D. D.
Eyre, J. R.
Fish, F. A.
Fisk, Ira W.
Foltz, Leroy S.
Ford, Arthur H.
Forman, A. H.
Foster, E. S.
Freeman, E. H.
Freeman, W. Edwin.
Fussell, Lewis
Gray, John C.
Greiner, J. E.
Hamilton, Geo. A.
Harding, C. F.
Haskell, F. E.
Hazeltine, L. A.
Henline, Henry H.
Higbie, H. H.
Hill, Arthur St. John
Hill, Wm. W.
Hillebrand, W. A.
Hillegass, H. H.
Hitchcock, L. W.
Humphrey, H. K.
Jackson, Dugald C. Jr.
Jackson, Dugald C.
James, W. G.
Jenkins, D. R.
Jewett, F. B.
Johnson, C. A.
Johnson, F. E.
Jones, F. R.
Kane, E. W.
Karapetoff, Vladimir.
Kartak, F. A.
Kegerreis, Roy.
Kellogg, E. W.
Kennelly, A. E.
Kerchner, R. M.
King, Morland
Kinsley, Carl
Kloeffler, Boyce G.
Knight, C. D.
Koerber, G. A.
Krapf, H. C.
Kurtz, E. B.
Lanier, A. C.
Lawrence, E. F.
Lawrence, R. R.
Laws, F. A.
Lawton, E. E.
Lewis, J. F.
Little, A. P.
Lovell, Alfred H.
Lovett, I. H.
Luderitz, Joao.
McAllister, A. S.
McCann, Wm. R.
McClain, F. H.
McCormick, C. M.
McEachron, K. B.
McWherter, M. C.
MacKavanagh, T. J.
Magnusson, C. E.
Markle, E. W.
Martin, Edwin R.
Martin, T. C.
Matthews, Thos.
Miller, S. O.
Morecroft, J. H.
Morrill, J. B.
Morrow, L. W. W.
Munro, M. S.
Nash, C. A.
Neel, Wm. T.
Neumann, W. R.
Norris, H. H.
Owens, R. B.
Paine, E. B.
Paine, Frank D.
Parker, G. S.
Parker, J. C.
Patterson, L. L.
Pender, Harold.
Pertsch, J. G. Jr.
Phelon, J. O.
Phillips, E. B.
Powers, W. P.
Press, Abraham.
Pritchard, S. R.
Pugh, Emerson.
Pullen, M. W.
Rappel, U. J.
Rath, Edwin R.
Reid, Clarence E.
Reynolds, J. A.
Ricker, C. W.
Rittenhouse, L. H.
Robb, Wm. L.
Rockwell, Robt. L.
Rodman, W. S.
Rollins, E. B.
Rood, Jas. T.
Rosebrugh, T. R.
Rowell, L. D.
Ryan, H. J.
Ryan, W. T.
Savant, D. P.
Schealer, S. R.
Scott, C. F.
Sechrist, G. H.
Seyfert, S. S.
Shaad, G. C.
Shepardson, G. D.
Shepardson, J. E.
Sheppard, H. S.
Slichter, W. I.
Smith, H. B.
Snow, John E.
Sorensen, R. W.
Spencer, F. A.
Springer, F. W.
Stavely, Earl B.
Stelzner, W. B.
Stevens, A. C.
Stillwell, L. B.
Stockwell, F. C.
Stone, Chas. W.
Straw, J. B.
Styer, Chas. A.
Tappan, F. G.
Teague, Wm. L.
Temple, W. E. S.
Thaler, J. A.
Thomas, Geo. B.
Thompson, Frank F.
Timble, W. H.
Todd, M. E.
Tompkins, F. N.
Topping, A. N.
Tucker, C. E.

Tuthill, J. K.
Upson, W. L.
Vallas, M. H.
Van Ness, L. G.
Wadsworth, F. L. O.
Watson, J. W.
Weinbach, M. P.
White, C. H. M.
Whitehead, J. B.
Willson, F. G.
Wilson, A. M.
Witham, R. L.
Wittig, Gustav.
Wooster, L. F.
Work, W. R.
Wright, C. A.
Wyman, F. T.
Yates, C. C.

GEOLOGY AND METALLURGY

Boylston, H. M.
Dake, Charles L.
Daniels, Joseph
Demorest, J. D.
Fox, Earle B.
Hofman, H. O.
Kinney, E. D.
Linville, C. P.
McCaffery, Richard S.
Mann, Horace T.
Mathewson, C. H.
Schneider, Hyrum.
Sweet, A. T.
White, Albert E.
Woodman, J. E.

INDUSTRIAL ENGINEERING

Armstrong, R. A.
Boston, Orlan W.
Bunn, J. W.
Coahran, J. M.
Frampton, G. O.
Hallock, J. W.
Keller, J. O.
Maclin, E. S.
Mehely, Kalman.
Mitchell, G. I.
Porter, D. B.
Power, R. L.
Roe, J. W.
Scott, L. C.
Shane, Adolph.
Thomson, R. D.
Towle, W. M.
Whited, E. Willis

LANGUAGE

Adams, E. L.
Atkinson, J. H.
Baker, Ray P.
Belden, H. M.
Birk, Wm. O.
Campamor, J. A.
Cofer, D. B.
Creek, Herbert L.
Earle, C. R.
Greiner, O. A.
Harbarger, Sada A.
Howell, A. C.
Johnson, E. L.
Lange, P. J. H.
Lee, A. O.
McDonald, P. B.
Macarthur, J. R.
Mackenzie, W. R.
Nelson, J. R.
Newman, C. M.
Odell, A. T.
Page, H. F.
Park, C. W.
Perry, W. G.
Pierpont, Arthur de
Raymond, W. R.
Raymond, F. N.
Searson, J. W.
Seaver, H. L.
Seavey, F. E.
Sheehan, Thos. W.
Starbuck, Arward.
Summey, George, Jr.
Sypherd, W. O.
Thomas, W. H.
Thompson, Karl O.
Trautman, W. D.
Wallace, S. S.
Weed, J. M.
Whittemore, J. S.
Wright, A. S.

MACHINE DESIGN AND DRAWING

Allen, F. G.
Berard, S. J.
Billmyer, C. D.
Bryans, W. R.
Carlton E. W.
Carroll, H. H.
Castle, Drew W.
Clapp, W. H.
Cloyd, Edward L.
Coppersmith, C. W.
Davis, Jas. C.
Dellenbaugh, F. S., Jr.
Dunham, Heber.
Ellis, W. T.
Farnham, W. E.
Finch, F. R.
French, R. W.
French, Thos. E.
Frey, George J.
Fry, H. P.
Fullan, M. T.
Furman, F. DeR.
Gauvreau, Victor.
Goulding, Herbert J.
Grover, A. L.
Harper, A. C.
Hayes, L. D.
Higbee, F. G.
Hood, G. J.
Howe, L. B.
Jordan, H. H.
Kenison, Ervin.
Kennedy, F. L.
Kirby, R. S.
Kirchner, W. H.
Langille, H. B.
Lenning, C. K.
McCabe, F. T.
McGrath, F. P.
Meiklejohn, Robert.
Miller, H. W.
Monninger, O. E.
Myers, H. D.
Norman, Carl A.
Orbeck, M. J.
Orth, H. D.
Paull, N. M.
Pearce, C. E.
Porter, F. M.
Price, C. B.
Robert, J. M.
Rondinella, L. F.
Slaymaker, P. K.
Steward, R. K.
Svensen, C. L.
Thomas, Chas. W.
Thomas, R. P.
Turnbull, W. D.
Volkmer, Albert W.
Ward, Samuel
Waters, E. O.
Watts, E. F.
Wenk, Morris.
Williams, O. E.
Willson, F. N.

MATHEMATICS

Ashton, C. H.
Beale, F. S.
Becker, Louis M.
Beckwith, W. S.
Berry, W. J.
Bikle, J. S.
Boehnlein, Chas.
Boerchel, W. H.
Brasefield, S. E.
Brown, E. C.
Butterfield, A. D.
Clark, E. E.
Comstock, C. E.
Comstock, F. M.
Corbin, C. E.

Crockett, Chas. W.
Cummings, H. N.
Dalaker, H. H.
Dobbs, F. E.
Doeringfeld, H. A.
Dougherty, H. R.
Evans, H. B.
Field, F.
Field, Peter.
Fine, H. B.
Focke, T. M.
Foraker, F. A.
Frary, R. W.
Garrett, L. E.
Gleason, R. E.
Haigler, Chas. E.
Hanna, U. S.
Harter, G. A.
Hartig, H. E.
Haskell, M. W.
Hatch, David A.
Hedrick, E. R.
Herrick, Carl A.
Herrmann, Raymond.
Hill, L. S.
Hinsch, Van Buren.
Hobbs, A. W.
Holder, F. J.
Hoskins, L. M.
Huntington, E. V.
Johndroe, S. G.
Jones, D. C.
Kiefer, E. C.
Lambert, P. A.
Lee, O. C.
Leonard, Heman Burr.
Loring, W. E.
Luby, Wm. A.
McClintock, W. M.
McDiarmid, G. C.
MacDonald, S. L.
Marshall, Wm.
Miles, Egbert J.
Morley, R. K.
Murray, D. A.
Nassau, J. J.
Northcott, J. A.
O'Shaughnessy, Louis.
Overholt, H. G.
Palmer, C. I.
Parsons, F. W.
Pehrson, E. W.
Phalen, Harold.
Plant, L. C.
Powell, R. W.
Remick, B. L.
Reynolds, J. B.
Rice, Harris
Rice, Lepine H.
Richardson, M. R.
Rietz, Henry L.
Risley, W. J.
Root, R. E.
Running, Theo. R.
Siler, R. W.
Skiles, W. V.
Smith, P. F.
Smith, Robt. F.
Sperry, C. S.
Swartzel, Karl D.
Taylor, Ward H.
Taylor, Wm. E.
Thomas, C. F.
Thomas, Evan.
Thornburg, C. L.
Tucker, E. N.
Tyler, H. W.
VanBuskirk, H. C.
Watts, C. W.
Webb, H. E.
Webber, W. Paul.
Weida, F. M.
White, A. E.
Wilcox, Hugh B.
Williamson, C. O.
Ziwet, Alexander.

MECHANICAL ENGINEERING

Aagaard, A. H.
Aldrich, W. S.
Anderson, A. H.
Archibald, Frank.
Arkley, L. M.
Armstrong, G. E. W.
Avram, M. H.
Baender, F. G.
Bark, Elmer.
Barnard, W. N.
Bauer, F. S.
Benedict, B. W.
Billings, J. Harland
Bird, Wm. W.
Blaisdell, A. H.
Bliss, C. P.
Blumberg, Leo.
Bowerman, M. R.
Boyer, F. Q.
Boyle, W. W.
Bragg, E. M.
Bray, H. C. C.
Breckenridge, L. P.
Brown, A. I.
Bucher, Paul.
Bullock, W. E.
Burpee, F. E.
Bursley, J. A.
Butterfield, T. E.
Calderwood, Jas. P.
Callan, John G.
Carlson, W. W.
Carpenter, E. L.
Charavay, M. A.
Chase, C. H.
Chiles, Geo. S.
Christensen, Geo. L.
Church, E. F., Jr.
Clark, F. D.
Cleghorn, M. P.
Consoliver, Earl L.
Cooke, M. L.
Corp, C. I.
Crain, L. D.
Crawford, C. W.
Crofoot, G. E.
Cushman, Paul A.
Dale, R. Burdette.
Daugherty, R. L.
Davidson, M. W.
Dearborn, C. S.
DeBaufre, Wm. L.
DeLa Mater, R. G.
Dent, J. A.
DePuy, C. E.
Dickerson, H. S.
Diederichs, Herman.
Dirks, H. B.
Domonoske, A. B.
Dowd, W. E., Jr.
Dudley, S. W.
Dunn, Harold
DuPriest, J. R.
Durand, W. F.
Elliott, B. G.
Ely, S. B.
Emerson, Walter D.
Emswiler, J. E.
Endsley, L. E.
Englehart, Russell J.
Estep, T. G.
Eyre, T. T.
Fairfield, J. G.
Fairman, S.
Fermier, E. J.
Fernald, R. H.
Fessenden, E. A.
Fittz, R. U.
Flather, J. J.
Folk, J. T.
Foster, J. M.
Frank, E. D. A.
Getchell, E. L.
Gilbreth, F. B.
Goldman, Otto B.
Goodenough, G. A.
Greene, A. M., Jr.
Gregory, W. B.
Griffin, F. S.
Grumbein, J. B.
Grundhoeffer, E. F.
Hall, James.
Hall, W. H.
Hammer, M. R.
Hancock, Chas.
Haney, J. W.
Harlan, O. K.
Heck, Robert C. H.
Helman, M. P.
Hewlett, Van Wyck.
Hibbard, H. Wade.
Hixon, C. R.
Hockema, F. C.
Hoefer, E. G.
Hoerning, Carlos.
Hofmann, G. A.
Hood, O. P.
Howell, R. S.
Hunter, J. A.
Jablow, Charles.
Jacobus, D. S.
Jenkins, A. L.
Johnson, J. S. A.
Jones, E. C.
Judd, Horace.
Kavanaugh, W. H.
Keller, G. J.
Kenerson, W. H.
Kent, B. C.
Kent, J. M.

Kerr, Jos.
Kiefer, P. J.
King, R. S.
Kingsbury, Albert.
Kinsey, A. S.
Klein, A. W.
Knapp, E. R.
Knowles, M. G.
Kunze, E. J.
Larkin, F. V.
Larson, G. L.
LeConte, J. N.
Lefavour, H. P.
Lanham, E. T.
Le Page, C. B.
Leutwiler, O. A.
Light, J. J.
Lindley, R. W.
Lockwood, E. H.
Lott, S. H.
Lucke, C. E.
Ludy, L. V.
Luebs, A. A.
Lund, Jacob
McKergow, C. M.
Macalpine, J. H.
MacCullough, G. H.
Mack, Albert J.
MacNaughton, Edgar.
Mall, Ivor O.
Magruder, Wm. T.
Main, C. T.
Marks, L. S.
Marquis, F. W.
Martenis, J. Van S.
Martin, W. H.
Meeker, W. H.
Mehrhof, F. E.
Miller, James S.
Ming, Frederick
Moody, L. F.
Morse, J. L.
Moss, S. A.
Muhfeld, J. E.
Munro, G. W.
Needy, John A.
Newton, Guy D.
Norton, A. E.
Nottingham, A. R.
Ohle, E. L.
Olson, O. A.
Palsgrove, Grant K.
Park, C. F.
Parkin, J. H.
Parkinson, H. N.
Peterson, J. A.
Philbrick, H. S.
Porter, R. H.
Pound, J. H.
Prentice, D. B.
Pryor, F. L.
Quigley, E. R.
Raber, B. F.
Richardson, G. R.
Robertson, B. J.
Robinson, Edw.
Roesch, Daniel.
Rowley, F. B.
Rubenkoenig, Harry
Rush, Harry S.
Sadler, H. C.
Sanders, W. H.
Sauers, John A.
Sayre, M. F.
Schmidt, E. C.
Setchell, H. E.
Seward, H. L.
Shattuck, E. L.
Shipley, S. C.
Shoop, C. F.
Sluss, A. H.
Smith, Harry E.
Smith, M. V. G.
Smith, Ralph A.
Stanford, J. V.
Starr, Chas. J.
Strong, A. J
Stuart, M. C.
Sullivan, Geo. L.
Sweetser, W. J.
Tait, R. S.
Trinks, W.
Turnbull, W. F.
Tyler, H. G.
Vanleer, B. R.
Vaughan, L. L.
Veal, C. B.
Vedder, J. N.
Vose, F. H.
Wagner, F. C.
Waite, E. B.
Walker, E. S.
Weaver, L. H. A.
Weber, John.
Weiland, W. F.
Wharen, G. B.
Wharton, James R.
Willard, A. C.
Willmarth, E. H.
Wilmore, J. J.
Wilson, Geo. S.
Wing, S. R.
Winslow, A. M.
Wohlenberg, W. H.
Wood, A. J.
Young, E. G.
Young, G. A.
Zowski-Zwierzchowski, S.J.

MECHANICS AND MATERIALS

Basquin, O. H.
Boomsliter, G. P.
Boyd, J. E.
Britton, Laurence.
Brooke, W. E.
Brooks, J. Ansel.
Brown, F. L.
Chambers, S. D.
Chatburn, G. R.
Coddington, E. F.
Cornell, W. R.
Crook, L. H.
Danforth, R. H.
Defoe, L. M.
Dietrich, J. J.
Draffin, J. O.
Duff, C. M.
Dukes, R. G.
Enger, M. L.
Ensign, N. E.
Fleming, V. R.
Fuller, C. E.
Garrett, S. S.
George, S. G.
Gilkey, H. J.
Hayward, H. W.
Hendrick, T. K.
Hitchcock, F. A.
Holman, W. F.
Holmes, F. E.
Houghton, C. E.
Hustedt, H. F.
Jasper, T. McD.
Johnston, W. A.
Kingman, E. D.
Kommers, J. B.
Laurson, P. G.
Lawrance, C. H.
McGowan, John.
Maurer, E. R.
Moore, H. F.
Moser, Chas.
Newkirk, B. L.
Plummer, H. C.
Priester, G. C.
Poorman, A. P.
Riggs, N. C.
Roark, Raymond J.
Sanders, W. B.
Scofield, H. H.
Seely, F. B.
Stevens, F. H.
Talbot, Arthur N.
Thompson, G. S.
Trueblood, R. B.
Varney, E. A.
Westergaard, H. M.
Withey, M. O.
Wood, E. H.
Woodward, S. M.
Wunderlee, J. L.

MINING ENGINEERING

Black, R. M.
Boyle, A. C., Jr.
Cobb, Collier.
Comstock, E. H.
Denton, F. W.
Drucker, A. E.
Dyer, F. C.
Grider, R. L.
Haultain, H. E. T.
Hoover, Theodore J.
Hunt, R. W.
Jenkins, A.
Kidd, J. W.
Lewis, R. S.
MacNaughton, Jas.
Munroe, H. S.
Nold, H. E.
Norwood, C. J.

Plank, W. B.
Porter, J. B.
Probert, F. H.
Raymond, R. M.
Roberts, Milnor.
Smyth, H. L.
Sperr, F. W.
Stoek, H. H.
Thomson, Francis A.
Underhill, James.
Wolf, Harry J.
Wolfe, B. Lee.
Young, C. M.

PHYSICS

Angel, Wm. P.
Ayres, F. H.
Bacon, G. P.
Ball, Albert.
Blake, Fred C.
Brown, S. L.
Carman, A. P.
Charles, R. L.
Clo, J. H.
Cole, Alfred D.
Cooper, F. L.
Coulson, J. C.
Dodge, H. L.
Duff, A. W.
Dysart, P. M.
Elliott, D. S.
Fisher, James.
Fitch, A. L.
Franklin, W. S.
Gilmore, L. H.
Grondahl, L. O.
Ham, Wm. R.
Hamilton, J. O.
Hedrick, Wm. A.
Hitchcock, Geo. G.
Householder, F. F.
Hower, H. S.
Hoxton, L. G.
Kazda, C. B.
Knight, N. H.
Knipp, C. T.
Kovarik, Alois F.
Lester, O. C.
MacNutt, Barry.
Mallory, Francis.
Marvin, H. H.
Mendenhall, T. C.
Miller, Dayton C.
Norton, C. L.
Nyswander, R. E.
Perry, Wm. S.
Person, Fred G.
Piper, F. F.
Porter, R. A.
Prine, C. W.
Randall, H. M.,
Rich, D. L.
Sanders, I. C.
Silvey, O. W.
Spinney, L. B.
Stewart, G. W.
Stewart, O. M.
Stimpson, E. F.
Swaim, Verne F.
Vezey, E. E.
Wheeler, L. P.
Wheeler, N. E.
Williams, Neil H.
Woodrow, Jay W.

SANITARY ENGINEERING

Babbitt, Harold E.
Case, George W.
Eno, F. H.
Hering, Rudolph.
Knowles, Morris.
Long, J. J.
Mead, D. W.
Saville, Thorndike.
Walker, Chas. L.
Whipple, G. C.
Wiley, Ralph B.

SHOP AND MECHANIC ARTS

Airey, J. A.
Bigelow, R. G.
Ellis, Frederick.
Hall, Burrill R.
Johnson, E. A.
Jones, F. E.
Knight, W. A.
Krewson, R. H.
Little, G. T.
Lynch, D. E.
Moffett, J. H.
Morris, J. J.
Radebaugh, G. H.
Richards, Wm. H.
Rillet, Chas. E.
Steele, J. N.
Turner, W. P.
Wendt, R. E.

MISCELLANEOUS

Arms, Ray W.
Bhole, V. R.
Coster, E. L.
Davee, E. W.
Eggers, H. C. T.
Everett, C. W.
Goldsmith, Adolph.
Hoexter, S. J.
Jones, Leonard R.
Jones, Samuel M.
Louria, M. R.
Peacock, F. E.
Phillips, Hubert
Snavely, T. R.
Thurstone, L. L.
Turner, C. A. P.

SUMMARY BY OCCUPATIONS.

Administration Officers:	*A*—College and University	163
	B—Industrial	84
Architecture		17
Agricultural Engineering		8
Chemistry		37
Civil Engineering		342
Electrical Engineering		229
Geology and Metallurgy		15
Industrial Engineering		18
Language		41
Machine Design and Drawing		65
Mathematics		101
Mechanical Engineering		240
Mechanics and Materials		62
Mining Engineering		31
Physics		59
Sanitary Engineering		11
Shop and Mechanic Arts		18
Miscellaneous		16
		1558
Institutional Members		87
Total Membership		1645

GROWTH OF MEMBERSHIP.*

Aug.	20, 1894.....	156	
Sept.	2, 1895.....	184	
Aug.	20, 1896.....	200	(about)
Aug.	16, 1897.....	203	
Aug.	18, 1898.....	226	
Aug.	17, 1899.....	238	
July	2, 1900.....	249	
June	29, 1901.....	261	
June	27, 1902.....	253	
July	1, 1903.....	271	
Sept.	1, 1904.....	325	
June	28, 1905.....	379	
July	2, 1906.....	400	
July	1, 1907.....	415	
June	27, 1908.....	675	
June	24, 1909.....	759	
June,	23, 1910.....	848	
June	27, 1911.....	1,071	
June	1912.....	1,102	
June,	1913.....	1,158	
March,	1914.....	1,339	
July	1, 1915.....	1,452	
March,	1916.....	1,504	
March,	1917.....	1,505	
March,	1918.....	1,506	
April,	1920.....	1,511	
April,	1922.....	1,589	
March,	1923.....	1,694	

* These figures are taken from the reports of the Secretary, presented at the annual meetings, except the figures for 1914 which were taken from the corresponding year book.

CONSTITUTION

OF THE

Society for the Promotion of Engineering Education

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1. NAME—This organization shall be called the SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.

2. MEMBERS—Membership in the Society shall be of two general classes, Institutional and Individual.

Institutional members shall be educational institutions giving instruction in engineering and scientific subjects.

Individual membership shall be of two classes, Active and Honorary. It shall comprise those persons who occupy or have occupied responsible positions in the work of engineering instruction, together with engineering practitioners and other persons interested in engineering education.

Honorary Members of the Society shall be such persons as may be recommended by unanimous vote of the Council after a letter ballot. In taking this ballot, the Secretary is directed to close the polls one month after the names of the candidates are sent out. Councilors not heard from will be counted in favor of the candidate. Honorary Members shall not have the right to vote, shall not be eligible to office, and shall not be required to pay any fees or dues.

Any individual member not in arrears for dues may become a Life Member by paying Fifty Dollars into the treasury of the Society at one time.

The name of each candidate for individual membership shall be proposed in writing to the Council by two members by whom he is personally known. In the case of a candidate for Institutional membership the name shall be proposed by any member familiar with the work of the institution on receipt of an application signed by a responsible officer thereof. Such name, if approved by the Council, shall be voted on by the Society at the annual meeting, a vote of three-fourths of those present being required to elect; or, during the period between annual meetings, an affirmative letter ballot of three-fourths of those members of the Council whose vote reaches the Secretary within one month from the time of sending out the name of the candidate shall elect. Such letter ballot elections shall be credited to the previous annual meeting and dues shall date from that time, except that elections to membership occurring after

February 1 shall be credited to the next annual meeting and the dues for the remainder of the year shall be one-half the annual dues.

3. OFFICERS—There shall be a President, two Vice-Presidents, a Secretary and a Treasurer, each to hold office for one year, or until their successors have been elected and have qualified. The Officers shall be elected by ballot of the Society at the annual meeting.

4. COUNCIL—The Council of the Society shall consist of twenty-one elective members, one-third of whom shall retire annually. The Officers and the Past Presidents of the Society shall be members of the Council ex-officio.

Any member of the Society shall be eligible to election to the Council, provided that not more than one elective member shall be from any one college.

Members of the Council shall be elected by ballot by the Society at its annual meeting.

The Council shall constitute a general executive body of the Society, pass on proposals for membership, elect candidates ad interim, attend to all business of the Society, receive and report on propositions for amendments to the constitution, and shall have power to fill temporary vacancies in the offices.

The President of the Society shall be Chairman of the Council, and the Secretary of the Society shall be Secretary of the Council and shall keep the minutes of its meetings and an accurate record of all its actions.

When votes taken by letter ballot of the Council shall be required, all votes which reach the Secretary within one month from the time of sending out the ballots shall be counted, but votes reaching the Secretary later than the time here specified shall not be counted.

5. NOMINATING COMMITTEE—The Nominating Committee shall consist of the Past Presidents and the seven elective members of the Council retiring the following year, provided, however, that if, of this committee, the number in attendance at any meeting be less than five, the President shall make appointments so as to form a committee of five.

6. FEES AND DUES—The admission fee for an individual, active member, which shall also include the first year's dues, shall be Four Dollars ($4.00), and the annual dues, which shall include the subscription price of the BULLETIN, provided for in Art. 8, shall be Four Dollars ($4.00), payable at the time of the annual meeting.

The admission fee for institutional members, which shall also include the first year's dues, shall be Ten Dollars ($10.00), and the annual dues, which shall include the subscription price of three copies of the BULLETIN, and of the PROCEEDINGS, provided for in Art. 8, shall be Ten Dollars ($10.00), payable at the time of the annual meeting.

The fiscal year shall end with the close (or adjournment) of the annual

meeting. Those in arrears more than one year shall not be entitled to vote, nor to receive copies of the PROCEEDINGS, and such members shall be notified thereof by the Secretary one month previous to the annual meeting. Any member who has been in arrears more than two years and duly notified by the Secretary, shall be dropped from the roll, until such arrearages are paid.

7. MEETINGS—There shall be an annual meeting at such time and place as the Society at the preceding annual meeting, or the Council may determine.

8. PUBLICATIONS—The publications of the Society shall include an annual volume of PROCEEDINGS, to be published and distributed to the membership as soon as possible after the annual meeting; and a monthly BULLETIN, to be published from September to June, inclusive.

9. AMENDMENTS—This Constitution may be amended by a two-thirds vote of those present at any regular meeting of the Society provided the amendment shall have been approved by the Council by letter ballot by a two-thirds vote of the members voting.

BY-LAWS OF THE SOCIETY AND RULES GOVERNING THE COUNCIL.

First. The Officers of the Society shall constitute a Committee to arrange for the annual meeting and to prepare a program for the same.

Second. The President, the Secretary and the Treasurer shall constitute an Executive Committee which shall have charge of all matters relating to the expenditure of money of the Society, the making of appropriations to Committees and for other purposes, the making of contracts, the approval of bills, and also during the period between the meetings of the Council shall have charge of other business affairs of the Society.

Third. Expenditures of money may be made only in accordance with a definite appropriation or by direct vote of the Executive Committee.

Fourth. Reading of papers shall be limited to fifteen minutes each or to such other time as may be designated by the Program Committee, and abstracts of papers of about three hundred words shall be printed when practicable, and distributed in advance to the members.

Fifth. The time occupied by each person in the discussion of any paper shall not exceed five minutes.

Sixth. The President, the Secretary and the retiring Secretary shall constitute a Publication Committee, of which the Secretary shall be Chairman, to edit and have charge of the publication of the monthly BULLETIN and the PROCEEDINGS of the Society, except the volume of

Proceedings of the last convention, which shall be edited by the retiring Secretary. If at any time there be no retiring Secretary the retiring President shall be a member of this Committee.

Seventh. The Officers, members of the Council and members of the local Convention Committee shall constitute a Committee on Sociability to introduce members and guests to each other at the annual meetings and in general to promote a spirit of good fellowship.

Eighth. The subscription price of the BULLETIN shall be Two Dollars per year, payable in advance.

Ninth. Additions or amendments may be made to these By-Laws at any regular meeting of the Society, on the recommendation of the Council by a two-thirds affirmative vote of the Council and of the Society.

Tenth. A Section of the Society may be formed by members in two or more institutions or by the members within a prescribed territory. A Section may be formed in any locality by a temporary organization which shall become a duly authorized section of the Society upon the approval of the Council. Sections may determine their own form of organization but shall operate in conformity with the Constitution and By-Laws of the Society and shall make a report of their proceedings to the Secretary of the Society. Sections shall be self-sustaining.

Papers and discussion presented before Sections shall be the property of the Society and may be published as Society proceedings only on authority of the Publication Committee.

Eleventh. A Branch may be formed by the members of a single institution. A Branch may be formed in any institution by a temporary organization which shall become a duly authorized Branch of the Society upon approval by the Executive Committee. Branches may determine their own form of organization but shall operate in conformity with the Constitution and By-Laws of the Society and shall make a report of their proceedings to the Secretary of the Society. Branches shall be self-sustaining.

Papers and discussions presented before the Branches shall be the property of the Society and may be published as Society proceedings only on authority of the Publication Committee.

Branch may coöperate with or be a part of other organizations having the same general purpose as this Society. The general purpose of Branches is to extend the interest in, and the discussion of, questions relating to the teaching of engineering students, and to bring to the Society at large, through its publications, the activities in all institutions that will be serviceable to the members of the Society.

Twelfth. Divisions may be formed by any group of members for the consideration of questions which relate particularly to that group, upon the approval of the Council.

PUBLICATIONS.

The publications of the Society can be obtained from the Secretary. The current issues are distributed gratuitously to members in good standing, one copy of each to each individual member and three to each institutional member. The price of the bound volumes of the PROCEEDINGS of former years is $2.50 to non-members, $2.00 to public libraries, and $1.50 to members for their own libraries.

The BULLETIN is issued monthly from September to June. The price to non-members is $2.00 per year. Libraries may order the BULLETIN and the PROCEEDINGS at $4.00 per year.

Reprints of papers may be ordered when the papers are in type form, and either with or without covers, at a price depending upon the number of pages and copies desired.

PAST OFFICERS

Special Committee for Division E, Engineering Education, World's Engineering Congress, 1893.

IRA O. BAKER, Chairman, HENRY T. EDDY, Vice-Chairman,
WM. R. HOAG, Secretary, C. FRANK ALLEN, Sec'y, *pro tem.*,
MORTIMER E. COOLEY, SAMUEL W. STRATTON,
STORM BULL.*

PRESIDENTS

DE VOLSON WOOD,* 1893–4, CHARLES S. HOWE, 1907–8,
GEORGE F. SWAIN, 1894–5, FRED. E. TURNEAURE, 1908–9,
MANSFIELD MERRIMAN, 1895–6, HENRY S. MUNROE, 1909–10,
HENRY T. EDDY, 1896–7, ARTHUR N. TALBOT, 1910–11,
JOHN B. JOHNSON,* 1897–8, WM. G. RAYMOND, 1911–12,
THOS. C. MENDENHALL, 1898–9. WM. T. MAGRUDER, 1912–13,
IRA O. BAKER, 1899–1900, G. C. ANTHONY, 1913–14,
FRANK O. MARVIN,* 1900–1, ANSON MARSTON, 1914–15,
ROBERT FLETCHER, 1901–2, HENRY S. JACOBY, 1915–16,
CALVIN M. WOODWARD,* 1902–3, GEORGE R. CHATBURN, 1916–17,
C. FRANK ALLEN, 1903–4, MILO S. KETCHUM, 1917–18,
FRED W. McNAIR, 1904–5, JOHN F. HAYFORD, 1918–19,
CHARLES L. CRANDALL,* 1905–6, A. M. GREENE, JR., 1919–20,
DUGALD C. JACKSON, 1906–7, MORTIMER E. COOLEY, 1920–21.

VICE-PRESIDENTS

SAMUEL B. CHRISTY,* GEORGE F. SWAIN, 1893–4,
ROBERT H. THURSTON,* FRANK O. MARVIN,* 1894–5,
FRANK O. MARVIN,* CADY STALEY, 1895–6,
JOHN GALBRAITH,* JOHN M. ORDWAY, 1896–7,
THOMAS C. MENDENHALL, HARRY W. TYLER, 1897–8,
C. FRANK ALLEN, HENRY W. SPANGLER,* 1898–9,
ROBERT FLETCHER, CHARLES D. MARX, 1899–1900,
THOMAS GRAY,* ALBERT KINGSBURY, 1900–1,
STORM BULL,* CALVIN M. WOODWARD,* 1901–2,
JOHN J. FLATHER, FRED W. McNAIR, 1902–3,
CHARLES L. CRANDALL,* JAMES C. NAGLE, 1903–4,
CLEMENT R. JONES, ELWOOD MEAD, 1904–5,
WILLIAM T. MAGRUDER, JOHN P. JACKSON, 1905–6,

* Deceased.

PAST OFFICERS.

R. C. CARPENTER, CHARLES S. HOWE, 1906–7,
CLARENCE A. WALDO, WILLIAM G. RAYMOND, 1907–8,
MORTIMER E. COOLEY, OLIN H. LANDRETH, 1908–9,
ARTHUR N. TALBOT, ARTHUR L. WILLISTON, 1909–10,
MILO S. KETCHUM, WILLIAM KENT, 1910–11,
G. C. ANTHONY, F. B. GILBRETH, 1911–12,
L. S. MARKS, F. W. SPERR, 1912–13,
H. S. JACOBY, D. C. HUMPHREYS, 1913–14,
H. H. NORRIS, C. RUSS RICHARDS, 1914–15,
G. R. CHATBURN, F. H. CONSTANT, 1915–16,
HOLLIS GODFREY, WM. M. THORNTON, 1916–17,
JOHN F. HAYFORD, IRA N. HOLLIS, 1917–18,
JOHN T. FAIG, E. R. MAURER, 1918–19,
A. A. POTTER, F. P. MCKIBBEN, 1919–20,
T. U. TAYLOR, H. S. EVANS, 1920–21.
H. J. HUGHES, E. J. McCAUSTLAND, 1921–22.

TREASURERS

STORM BULL,* 1893–5,
JOHN J. FLATHER, 1895–9,
CLARENCE A. WALDO, 1899–1902,
ARTHUR N. TALBOT, 1902–4,
FRED. P. SPALDING, 1904–6,
ANSON MARSTON, 1906–7.

SECRETARIES

JOHN B. JOHNSON,* 1893–5,
C. FRANK ALLEN, 1895–7,
ALBERT KINGSBURY, 1897–9,
EDGAR MARBURG,* 1899–1900,
HENRY S. JACOBY, 1900–2,
CLARENCE A. WALDO, 1902–4,
MILO S. KETCHUM, 1904–6,
WILLIAM T. MAGRUDER, 1906–7,
ARTHUR L. WILLISTON, 1907–9,
HENRY H. NORRIS, 1909–14.

MEMBERS OF PREVIOUS COUNCILS

Terms of Office Expired in 1894.

M. E. COOLEY,
W. R. HOAG,
H. T. EDDY,
S. W. ROBINSON,*
R. H. THURSTON.*
W. F. M. GOSS,
H. W. SPANGLER,

Terms of Office Expired in 1895.

H. T. BOVEY,*
MANSFIELD MERRIMAN,
W. H. BURR,
W. G. RAYMOND,
DE VOLSON WOOD.*
O. H. LANDRETH,
G. F. SWAIN,

Terms of Office Expired in 1896.

I. O. BAKER,
JOHN GALBRAITH,*
STORM BULL,*
J. B. JOHNSON,*
C. D. MARX.
S. B. CHRISTY,*
F. O. MARVIN,*

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1897.

H. T. Eddy, J. J. Flather, J. P. Jackson,
Albert Kingsbury, L. S. Randolph, S. W. Robinson,*
R. H. Thurston.*

Terms of Office Expired in 1898.

C. F. Allen, C. L. Mees, Mansfield Merriman,
J. M. Ordway, W. G. Raymond, Cady Staley,
R. S. Woodward.

Terms of Office Expired in 1899.

Arthur Beardsley, Robert Fletcher, John Galbraith,*
William Kent, T. C. Mendenhall, W. H. Schuerman,
M. E. Wadsworth.*

Terms of Office Expired in 1900.

Storm Bull,* L. G. Carpenter, Albert Kingsbury,
F. O. Marvin, R. B. Owens, R. L. Sackett,
R. H. Thurston.*

Terms of Office Expired in 1901.

T. N. Drown,* M. A. Howe, I. N. Hollis,
Gaetano Lanza, P. C. Ricketts, R. G. Thomas,
C. M. Woodward.*

Terms of Office Expired in 1902.

Brown Ayres, G. W. Bissell, J. J. Flather,
W. T. Magruder, F. W. McNair, J. M. Porter,
A. J. Wood.

Terms of Office Expired in 1903.

C. F. Allen, D. C. Jackson, N. C. Ricker,
J. P. Brooks, Edgar Marburg, A. L. Williston,
J. C. Nagle.

Terms of Office Expired in 1904.

W. F. M. Goss, Thomas Gray,* D. C. Humphreys,
O. H. Landreth, W. G. Raymond, L. E. Reber,
L. S. Randolph.

Terms of Office Expired in 1905.

Wm. Esty, L. J. Johnson, W. M. Towle,
H. S. Jacoby, Elwood Mead, J. L. Van Ornum,
Edward Orton, Jr.

Terms of Office Expired in 1906.

John Galbraith,* Charles S. Howe, Walter M. Riggs,
Frederick P. Spalding, Henry W. Spangler,* Fred. E. Turneaure,
Herman K. Vedder.

* Deceased.

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1907.

THOMAS GRAY,*	JAMES C. NAGLE,	WILLIAM G. RAYMOND,
LOUIS E. REBER,	ARTHUR N. TALBOT,	CLARENCE A. WALDO,
	ROBERT S. WOODWARD.	

Terms of Office Expired in 1908.

VICTOR C. ALDERSON,	ARTHUR H. FORD,	H. P. TALBOT,
FRANCIS C. CALDWELL,	HENRY S. MUNROE,	A. L. WILLISTON,
	FREDERICK W. SPERR.	

Terms of Office Expired in 1909.

CHARLES F. BURGESS,	JOHN F. HAYFORD,	THOMAS W. PALMER,
ARTHUR M. GREENE, JR.,	MILO S. KETCHUM,	JOSEPH A. THALER,
	HENRY H. NORRIS.	

Terms of Office Expired in 1910.

FRED W. ATKINSON,	WALTER B. RUSSELL,	WILLIAM S. FRANKLIN,
MORTIMER E. COOLEY,	WILLIAM KENT,	CHARLES F. SCOTT,
	HAROLD B. SMITH.	

Terms of Office Expired in 1911.

LESTER P. BRECKENRIDGE,	LEWIS J. JOHNSON,	WILLIAM G. RAYMOND,
THOMAS GRAY,*	WILLIAM T. MAGRUDER,	HERMAN SCHNEIDER,
	CLARENCE A. WALDO.	

Terms of Office Expired in 1912.

FRANK H. CONSTANT,	H. WADE HIBBARD,	EDW. R. MAURER,
FREDERICK A. GOETZE,	JOHN H. LEETE,	JOHN C. OSTRUP,
	CHAS. RUSS RICHARDS.	

Terms of Office Expired in 1913.

C. H. BENJAMIN,	E. E. BRYDONE-JACK,	J. F. HAYFORD,
G. W. BISSELL,	W. H. P. CREIGHTON,	C. RUSS RICHARDS,
	H. W. TYLER.	

Terms of Office Expired in 1914.

J. E. BOYD,	F. L. EMORY,	J. A. L. WADDELL,
C. H. CROUCH,	C. E. MAGNUSSON,	A. J. WOOD,
	H. H. STOEK.	

Terms of Office Expired in 1915.

F. L. BISHOP,	O. P. HOOD,	W. B. SNOW,
G. R. CHATBURN,	G. D. SHEPARDSON,	J. C. TRACY,
	F. P. MCKIBBEN.	

Terms of Office Expired in 1916.

J. F. HAYFORD,	A. S. LANGSDORF,	P. F. WALKER,
M. S. KETCHUM,	F. P. SPALDING,	S. M. WOODWARD,
	H. W. TYLER.	

* Deceased.

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1917.

R. H. Fernald,
A. H. Fuller,
A. M. Greene, Jr.,
E. V. Huntington,
V. Karapetoff,
D. C. Miller,
W. M. Riggs.

Terms of Office Expired in 1918.

L. P. Breckenridge,
C. L. Coby,
C. H. Crouch,
O. P. Hood,
J. B. Whitehead.
F. P. McKibben,
G. D. Shepardson,

Terms of Office Expired in 1919.

A. H. Blanchard,
W. H. Browne, Jr.,
T. E. French,
R. W. Gay,
A. A. Potter.
F. G. Higbee,
E. J. McCaustland,

Terms of Office Expired in 1920.

T. U. Taylor,
K. G. Matheson,
C. J. Tilden,
C. F. Scott,
L. M. Hoskins.
Frank Aydelotte,
W. E. Mott,

Terms of Office Expired in 1921.

Frederic Bass,
C. Francis Harding,
O. A. Leutwiler,
C. R. Mann,
W. J. Risley.
J. Raleigh Nelson,
F. L. Pryor,

Terms of Office Expired in 1922.

H. S. Boardman,
F. C. Bolton,
E. F. Coddington,
W. H. Kavanaugh,
W. S. Rodman.
C. C. More,
E. H. Rockwell,

---

* Deceased.